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Last month's meeting was at **Bart Pond's** shop in Hillsboro. Thanks Bart. The following pages show the projects highlighted.

The **February meeting** has been changed and is now scheduled for **Paul Pierce's** vintage computer collection at **1700 SE 11th Avenue in Portland**. Plan to be there at 1pm on February 14. This is near SE 11th and Market St. in a green office building. Off street parking.

See the **Meeting Schedule** box below for the revised meeting dates. Thanks **Carl Petterson** for putting together this schedule.

This note from **Dave Francisco**: The Newsletter is running on borrowed money and needs your dues ASAP. Just \$12 per year payable preferably by check to "PME" or "Portland Model Engineers". Checks can be given to Dave at the next meeting or mailed to the address below. Circulation will soon be cut off to non dues payers.

Dave Francisco
11727 SE Brookside Drive
Portland OR 97286

Meeting Schedule

All Following Subject to Change:

February 14: Paul Pierce's vintage computer collection. 1700 SE 11th Avenue, Portland, OR. Paul has a number of 1950s era computers from the days when a large company had just one mainframe computer.

March 13: Sam M. Mesher Tool Co. 1704 NW Johnson St., Portland, OR. This firm has old machinery which will interest our members.

April 10: Another Time Clock repair. 18347 S. Redlands Rd., Oregon City, OR. This firm has old machinery which will interest our members.

FOR THE BEGINNER #12

I worked with a machinist that used this chart and said he really liked it. I haven't used all of the settings but if you are into cutting key ways, this might work for you. Check all settings before cutting.

COMMON MILL CUTTER CENTERING DIMENSIONS FOR COLD ROLLED SHAFTING

SHAFT DIA.	KEY SIZE	CENTERING DIMENSION	DEPTH
1/2 D+ 1/2 C			
STRAIGHT KEY			
1/2	1/8 X 1/8	.312	.067
5/8	3/16 X 3/16	.406	.108
3/4	3/16 X 3/16	.468	.106
7/8	3/16 X 3/16	.531	.104
1	1/4 X 1/4	.625	.141
1 1/8	1/4 X 1/4	.687	.139
1 1/4	1/4 X 1/4	.750	.138
1 3/8	5/16 X 5/16	.844	.174
1 7/16	3/8 X 3/8	.906	.213
1 1/2	3/8 X 3/8	.937	.225
1 11/16	3/8 X 3/8	1.031	.209
1 3/4	3/8 X 3/8	1.0625	.209
1 15/16	1/2 X 1/2	1.219	.283
2 7/16	5/8 X 5/8	1.531 SPECIAL	.358
2 7/16	5/8 X 5/8	1.531 STANDARD	.353
3 7/16	7/8 X 7/8	2.156 SPECIAL	.368
3 7/16	7/8 X 5/8	2.156 SPECIAL	.493

CHECK SIZE BEFORE MILLING

WOODRUFF KEY

5/8	3/16 X 3/4	.406	.232
3/4	3/16 X 3/4	.468	.220

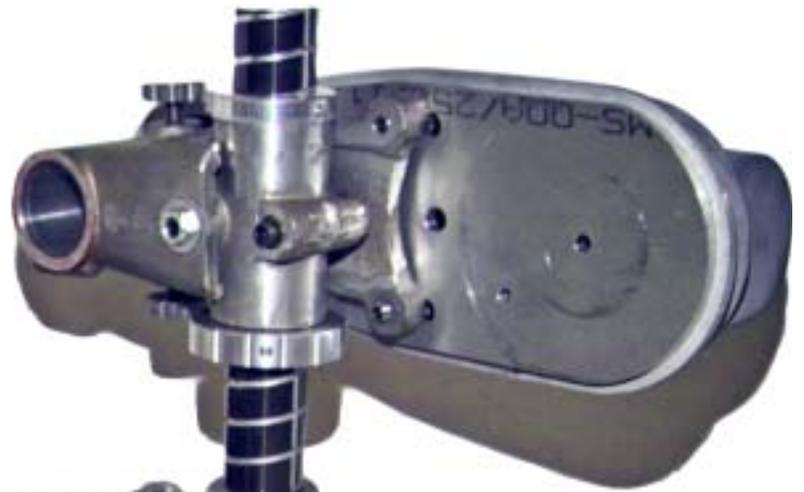
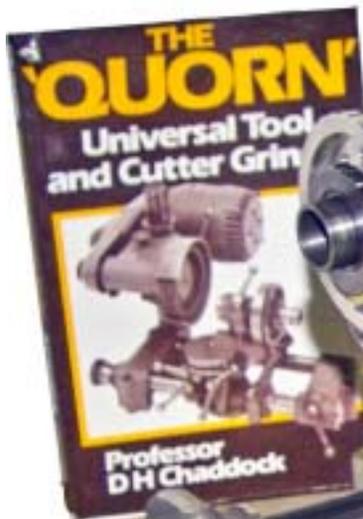
Wes Ramsey



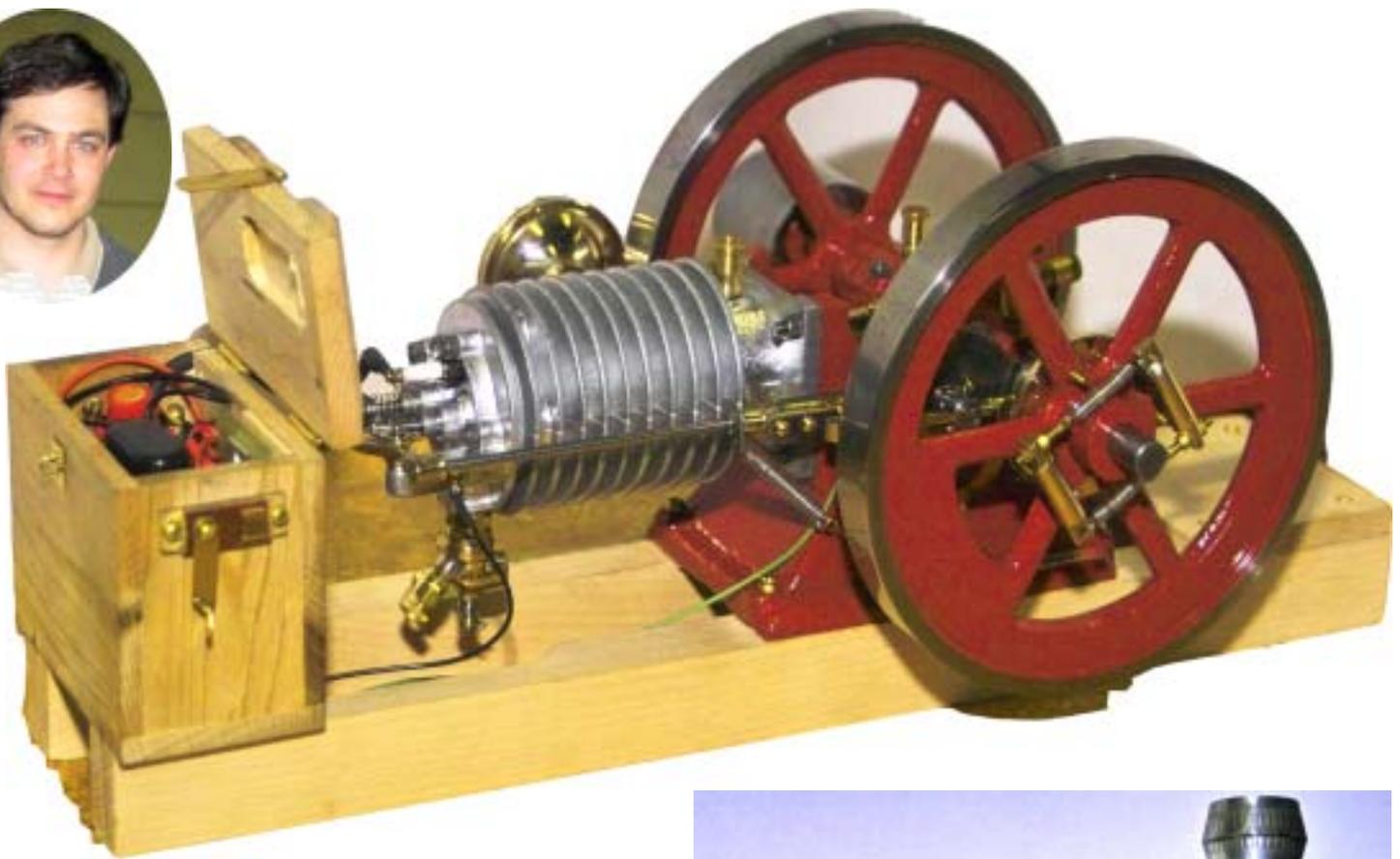
Carl Petterson brought the grease gun shown above. Notably it is only about two inches long and works. A novel construction job by club member **Martin Schmidt**. At left is a pattern for an industrial part prepared by master pattern maker **Gary**

Martin as an example of the complexity his profession sometimes involves. Gary also brought the two flywheel patterns shown at left. Now where is that hot iron waiting for the pour. Below is pictured the modified Quorn machined by **Tom Hammond** who writes:

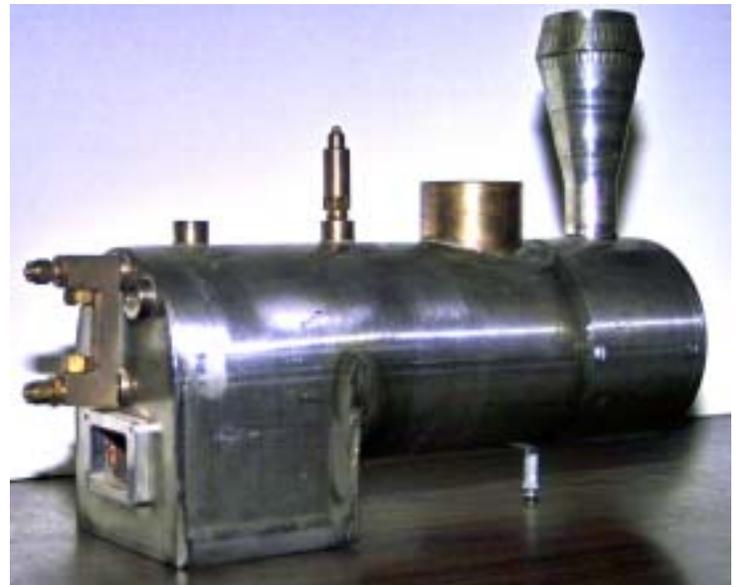
“Tom Hammond’s “Aluminum Quorn”, made for Gary Martin to be used as a lightweight display model at his stand for shows like Cabin Fever and NAMES. In addition to the change of materials, it uses split collets (a la George Thomas) rather than slotted castings to clamp the bed bars and other moving parts. A full set of aluminum ball-handles will eventually replace all the socket-head cap screws.”



Also pictured are the curved T-nuts (partially sawed apart) used to secure the tool holder and an optional R8 tool holder.



Mike Foti (see inset above) does it again. He constructed the Gade engine from a kit supplied by Gary Martin. This hit and miss gas engine includes a Jerry Howell ignition and was machined on a Sherline lathe. Mike expects it to be operational after a fuel tank is added.



At right is a boiler aged by Bart Pond for a number of years which he decided to auction off to raise funds for GEARS. **Bob Diffely** bought it with the intent to age it into the future. Its heritage is uncertain but it appears to be stainless steel construction and usable in a steam traction engine.

And what kind of retirement gift did you get? How about a new Hardinge lathe like the one at right? Somehow **Bart Pond** planned his future better than some of us and will spend some of his days getting used to this magnificent machine. One of his first tasks will be to add a DRO.





Jamie McAdams brought a table top full of items to auction for the club - shown upper left.

Above is pictured the box of club badges maintained by **Dave Francisco** who also maintains the mailing list of current members numbering over a hundred. Thanks Dave.



At left center are pictured the outgoing president **Gary Martin** (thanks for your important accomplishments) and incoming president **Pat Wicker** (good luck in this critical year with the startup of GEARS).



And of course what machinist meeting would be complete without dumpster diving (at left). Its not clear if they found edible food but some of the folks were grinning with their scraps of aluminum.