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Last Month's meeting was held at **John Pohlpetter's Musicodian Museum** in Oregon City. What an impressive assortment of antique player instruments and paraphernalia. Thanks, John, for letting us view and hear your impressive collection.

Next Meeting

July 9, club picnic at **Bud Statton's house** near Banks, OR. See directions elsewhere in this issue.

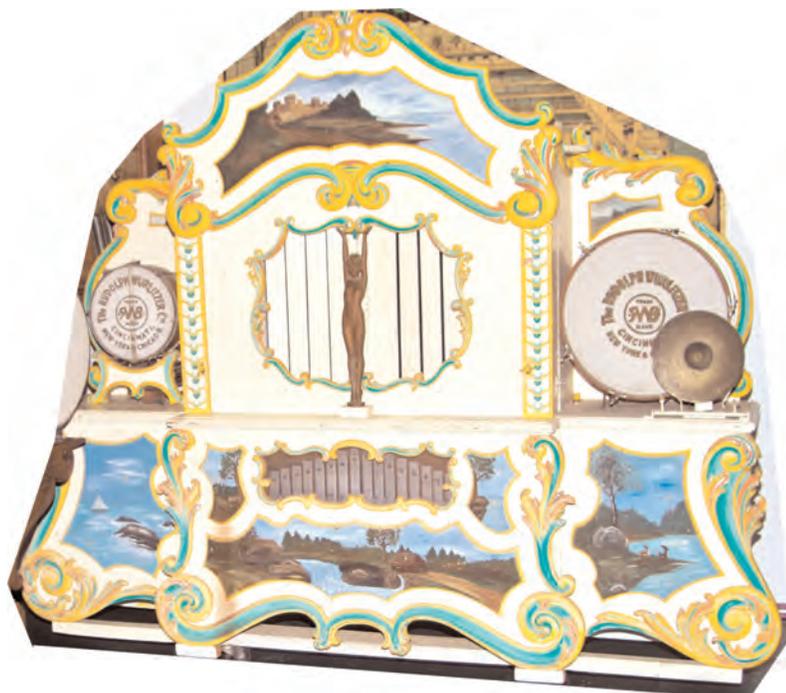
Later 2005 Meetings

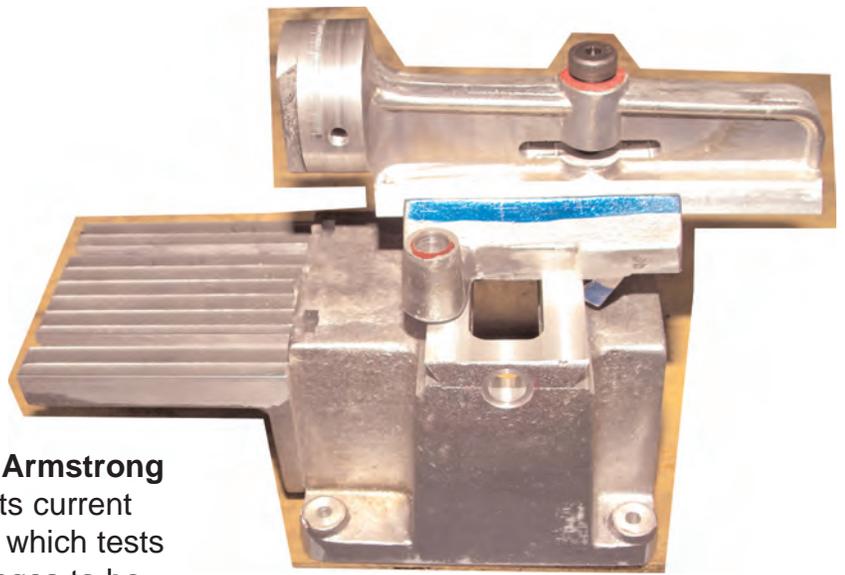
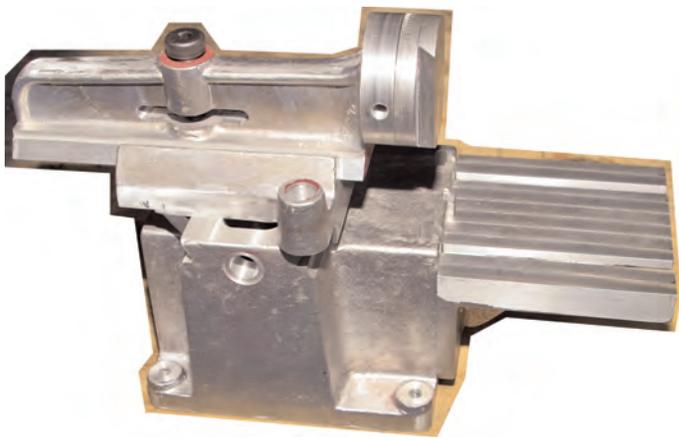
August 13, Club 10th Anniversary Meeting at Dave Carr's shop, Hillsboro. Regular September meeting on September 10 will be arranged if member interest is there.

September 24 & 25, GEARS show, Portland.

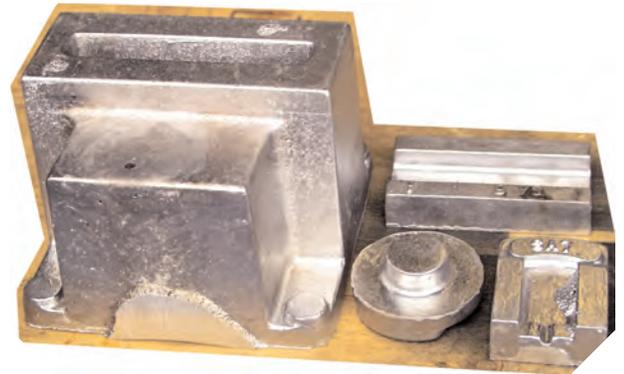


Everyone knows about player pianos. But how many have seen and heard Player banjos (at left) or player bands (at right)? These and dozens (maybe hundreds?) of antique mechanical marvels are in **John Pohlpetter's** collection.



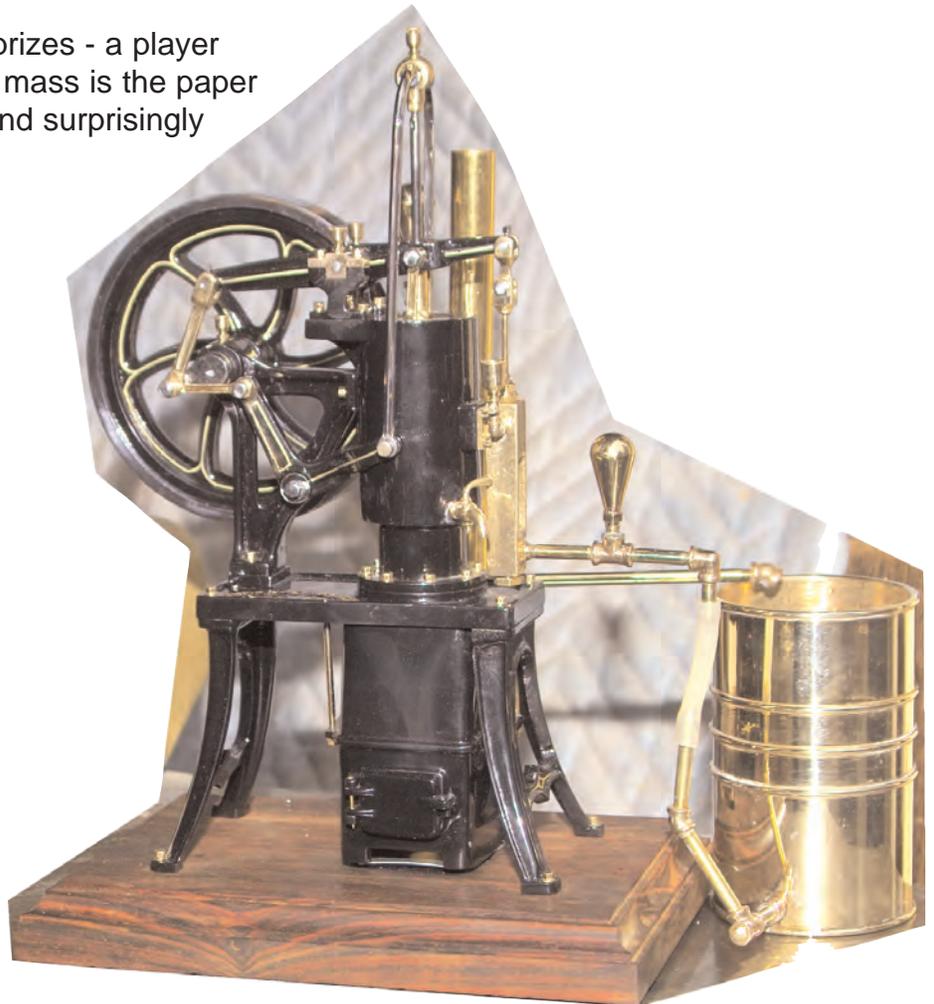


Tom Hammond brought the partially finished **Armstrong** hand shaper shown above and right to show its current status . This aluminum version is a prototype which tests how well the parts fit together and allows changes to be made before the iron versions are cast. This low weight version will also be used by **Gary Martin** to take to model engineering shows. It is expected that some casting kits will be available for sale. The saga continues.



Gary Hart brought the Rider Ericsson engine shown lower right. The castings of this hot air engine are available from Meyer's models of Ohio. It is a 1/8 scale of the original 8 inch pumping engine. Its always satisfying seeing a model hot air engine doing actual work.

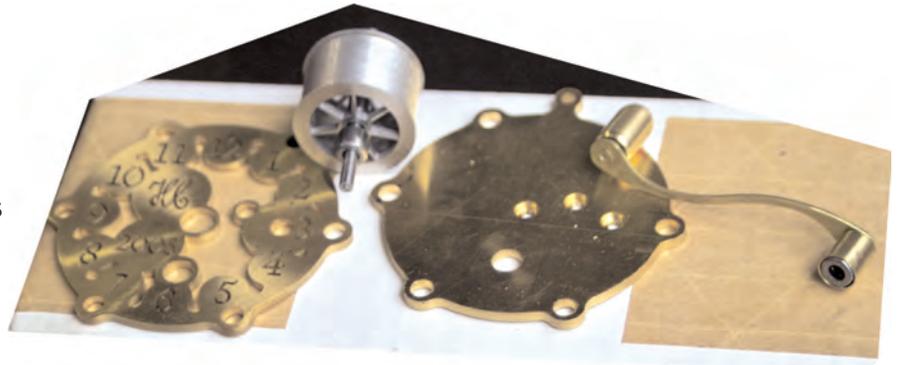
Below is another of **John pohl**peter's prizes - a player zxylophone - like instrument. The white mass is the paper which contains the musical "program" and surprisingly maintaining its integrity.





Is this the next avenue of model engineering? The example above left of a part was literally printed layer by layer in a rapid prototyping machine from a CAD drawing made by **Doug Auburg** (upper right). The prototyping machine is located at Clark County (WA) junior college where Doug is both an instructor and a student. Good show Doug.

Aspiring master clockmaker **Henry Casson** shows the brass gears he milled on his CNC mill using a 0.018 inch diameter mill (not a gear cutter). Although the gears are 0.030 thick (nearly twice the mill diameter), Henry made the cut in one pass using a feed rate of 0.15 inches per minute. Henry also brought several precision clock parts shown at right.





A surprise visit by **Steve Preston** (left) allowed members to view his special Humvee which has been refurbished to nearly exact military specifications. However, the machine gun shown is not operational.



Bill Miller shared the benefits of his garage sale purchase by selling a box of these carbide mills for \$1 each to interested members.



PME Visits Columbia Steel Castings

Gary Martin's lost & found(ry) gang, from his foundry pattern class recently toured Columbia Steel Castings in North Portland. This class, mostly composed of PME members, saw the extensive foundry, pattern shop and moulding area. This business was founded in 1901 and makes huge steel chains, drag line buckets, rock crushers and other steel industrial implements. Model engineers are constantly looking at real machinery to see how it can be duplicated in a smaller size. Here were many examples. To see molten steel flowing into a moulding flask the size of a small bedroom looks like a scene from Hell, as our host put it. We agreed.

Caption for the above photograph.

Tour group, from left to right. Doug Vorwaller, Tom Hammond, Dick and Art class members, Greg Swenson, Chuck Stark, Gary Martin (with yellow hard hat), Hans Stangier, Jarod Eells, Paul Pierce, Rich Fague, Scott, an employee of Gary Martin, Al Pohlpetter, Carl Petterson and Bud Statton.

Directions to Bud Statton's From MAPQUEST
44750 NW Star Street, Banks, OR
503 324 9514

1. From US-26 traveling WEST toward OCEAN BEACHES:
2. Bear Left on NW BANKS RD - go 1.7 mi
3. Bear Right on NW CEDAR CANYON RD - go 1.0 mi
4. Continue on NW HARTWICK RD - go 0.6 mi
5. Turn Right on NW SATELLITE DR - go 0.4 mi
6. Turn Left on NW STAR ST - go < 0.1 mi
7. Arrive at 44750 NW STAR ST, BANKS, on the Left

