

DUES ARE DUE

\$25.00

CONTACT

LEW THROOP AT

(650) 941-8223

The Crank Calls

March 2006

President.....Pat O'Connor.....(408) 733-3710.....pat1650@yahoo.com
 Secretary.....Carl Wilson.....(650) 967-7715.....tallyho123@yahoo.com
 Treasurer.....Lew Throop.....(650) 941-8223.....lthroop@aol.com
 Events Coordinator...Dick Pretel.....(408) 732-6507.....RPM10K@SONIC.NET
 Tech Topics.....Dwight Giles.....(707) 648-1481
 Editor.....Bill Nickels.....(408) 739-2407....whnickels@aol.com

NEXT MEETING

MARCH 18, 2006 AT
 Robert Schutz's Shop,
 366 40th St. Oakland, CA
 Doors open at 9AM
 Meeting starts at 10 AM

Events Coordinator Report -Dick Pretel

Here are 2 show dates that are tentative.

March 25 – 26 Merced, Calif. To be held at the Merced
 AG museum on 140.
 April 30th Dream machine show in Half Moon Bay, Calif.

MEETING NOTES

2-18-06

Carl Wilson

Pat O'Connor opened his first meeting as "Prez" by calling for the introduction of guests. We welcomed Eric Anderson, Sam B...and Andy Macica.

Lew Throop noted that we have about 120 listed members, but only 76 have paid their dues. We are getting close to removing non-paying members from the roster. So it's pay-up time, guys.

Al Vassallo designed and built this V-4 Stirling hot air engine. Stirling engines have a hot and a cold end of the displacer cylinder. The propane burners are in the hot tops, the dark tubes at the end of the cylinders. The cold end is water-cooled by a circulating pump visible in the left foreground (yellow hoses.) The working fluid is air and is pressurized by the air pump behind the water pump (red hoses.) The displacer and power cylinders are co-axial, that is, the displacer is just underneath the hot top and the power cylinder is beneath the displacer. SEE PAGE 3



Cor Langeweis (center) is telling John Meredith (left) and Karel Vystrcil (right) about his “Real” Steam Engine. There is a story behind this engine and I would like to tell a bit of it. The first vertical steam engines mounted the cylinder on the base and the crankshaft was supported above on the entablature. Later engines inverted this arrangement and are known as inverted vertical engines. Cor’s engine, of the original layout, was called the “REAL” Steam Engine by its designer, Andrew Smith. The prototype of this engine was built about 1850 and used for 100 years in a colliery (coal mine) to grind fodder for the pit ponies.



Robert Schenk showed his build of the PM Research double-acting steam engine. This was advertised in the 1895 Strelinger catalog as a 1/4 hp portable power engine. It features a 1.5" bore x 2.5" stroke in a double-acting cylinder, and a piston valve.





Here is John Meredith's Sirius, a Merritt Zimmerman designed 1/5th scale model of the De-Havilland Gypsy Moth 4 cylinder in-line aero engine. John has installed glow plugs in the head and will later change them for spark plugs. He said that it took quite an effort to find the proper angle to drill the plug ports, not a lot of room. Another challenge was the very small camshaft that was ground from the solid.



George Gravatt is building this Silver Bullet designed by the late Bob Shores. George doesn't build 'em to the print, he builds them the way that he thinks they should have been designed. So he told us about the various modifications that he has made. And quite a list it is too: ball bearings on the crank and cam shafts, lip oil seals on the crank, a larger flywheel, and a model airplane carburetor.



Club members can obtain a badge by contacting Mike Rehmus at micharel.rehmus@byvideo.com 707-643-6396 or at the club meeting.

LATHE WANTED

Mike Rehmus suggested I contact you. I am looking for a 9-inch or 10-inch Logan or South Bend lathe that is in good condition for my home workshop. Mike thought you might be willing to include a 'Lathe Wanted' listing in the next Bay Area Engine Modelers newsletter even though I am not a BAEM member. I live near Grass Valley, CA, and will travel all over Northern and Central California to inspect and pick up a good lathe.

Thanks for your consideration,
Mike Ream
(530) 432-0148
mikeream@hotmail.com

FOR SALE

7" x 10" VARIABLE SPEED LATHE
CALL LEW THROOP AT
650-941-8223



Dwight Giles just keeps on turning out parts for the Vaughan hit-n-miss engine. The casting kit is by DeBolt Machine. This model has an 1 1/4" bore and 2" stroke, igniter ignition, and a rotating side shaft.

I had the pleasure of showing the armature from the Proteus Generator. This is a casting kit from D&M Model Engineering. It is rated at 80 watts at 6 to 12 volts DC. Like George, I cannot resist modifying things. The 6 pole pieces were one casting. This would have been difficult to machine, and even tougher to wind the coils. I cut the poles from the casting and machined them to size. The coils were wound on the pole pieces that were then bolted to a new hub.

FOR SALE

FOR SALE

Pratt & Whitney 7" x 16" Toolmakers Bench Lathe

Collet drawbar and 14 collets 1/16" to 1/2"

4" 3 jaw chuck with inside and outside jaws

Dog driver plate

1 male center 1 female center

1 Jacobs drill chuck 1 spare drill arbor

Countershaft pulley but no shaft or motor

1 pair of countershaft bearings and stands

Condition: Storage corrosion: needs cleaning; headstock and tailstock spindle move smoothly

\$250

Carl Wilson
650-967-7715