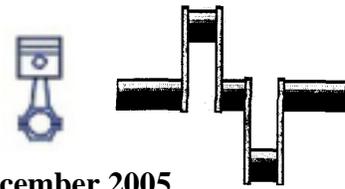


The Crank Calls



December 2005

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Tech Topics....Pat O'Connor.....(408) 733-3710.....pat1650@yahoo.com

NEXT MEETING
December 10, 2005 At
Robert Schutz's Shop, 366 40th St. Oakland, CA
Doors open at 10AM
Meeting starts at 11 AM

POT LUCK HOLIDAY PARTY
11 AM – 1 PM
Bring your favorite engine and food dish.

DUES ARE DUE

TO JOIN THIS CLUB OR
RENEW YOUR MEMBERSHIP

Contact Lewis Throop at
27272 Byrne Park Ln.
Los Altos Hills 94022-4324
Phone 650-941-8223
Email: lthroop@aol.com

MAKE YOUR \$25.00 CHECK
PAYABLE TO LEWIS THROOP

NOTICE

The December meeting of Bay Area Engine Modelers will be Dec. 10, 2005 at 11AM. This is our annual Christmas potluck lunch held on the second Saturday of the month rather than the third Saturday. Bring eats, drinks, snacks and any engine that you can fit in the car.

MEETING NOTES

NOV. 19, 2005

Carl Wilson

The pres, Ken Hurst asked our guests to introduce themselves. We had Dave Alles, Clark Wood, Kevin Wood and Richard Frank. Thank you, gentlemen, for joining us today. If I misspelled any names, let me know.

Lew Throop gave the treasurers report: we are solvent! He also reported that we have a new member living in Australia, John S. Wilson. John sent via e-mail two drawings of a Volkswagen engine modified for aero use. One was a

horizontal section through the crankshaft showing most of the internal detail and the other was an isometric drawing of the outside of the engine. In color, too. These drawings were done to gain experience with a Computer Aided Design program. These drawings were so good that there was a universal acclamation of his membership. Thanks, John.

Our newsletter has been available by (snail) mail or on the club web site, www.baemclub.com, for several years. Ken asked that everyone who is able to download a copy from the web to please do that rather than requesting a mailed copy. This simple change would save our newsletter crew some work and save the club the expense of paper, ink, and mailing. Contact our newsletter editor, Bill Nickels, to make any changes.

Some of our Tech Topics have been illustrated by photos or drawings resident in a computer and displayed on a screen by a special projector. Pat O'Connor has mentioned several times that the club should buy one. Jim Piazza had the idea of buying some tools and raffling them off at our meetings. Donations of tools would be good idea, too. The goal is to raise \$1000 to \$1200. Cash donations accepted, of course.

Dwight Giles is building a Gray engine, and you can see from the photo, that is the color he painted it. Dwight said that the castings were rather rough and a lot of work has been done to



finish them. The machined castings were cleaned in an ultrasonic cleaner, and then given two or three coats of epoxy primer. Body filler was applied, and the castings were sanded down to bare metal. They were then re-primed and given the gray color coat in acrylic enamel with hardener. This is a flyweight governed hit-n-miss engine with 1.850 bore and about 2 1/4" stroke. The piston has Honda motorcycle rings. Dwight made special mention of the U-bend in the carburetor. Nice casting, but it was missing the U-shaped hole. Dwight's bag of tricks did not include a 180 deg. around the corner drill, so he drilled the two parallel legs as far as possible and then cut the casting open with a 0.015" slitting saw. The remaining material was carved out and the pieces silver soldered together.

Cor Langweis builds steam engines. And we are fortunate that he brings them in for our enjoyment. This is a Stuart 10H, 3/4" bore and stroke, coupled to a Stuart oil well pump. Note the displacement lubricator connected to the intake port and the oil separator on the exhaust.

The third issue of Model Engine Builder is in the mail said Mike Rehmus and many people already have theirs. Be patient and you shall be rewarded. And if you think delivery is slow for this issue, what do you think will happen next month when issue #4 is mailed on December 15 or thereabouts. Mike continued onto another subject: the future availability of casting kits. Mike attends most of the model engineering shows and has observed that the vendors of castings are getting a little "long in the tooth." And, that it is getting increasingly difficult to find foundries that will pour a small order of small castings. The moral of his comments: if you like a particular casting kit, buy it soon even if it does age under the workbench for a



Everyone likes polished brass and George Gravatt polished all the brass on his model of a 1912 New Holland 1 1/2 horsepower engine: 7/8" bore and 1 3/8" stroke. The fuel tank is in the base of the engine and the carburetor is on the base behind the crankshaft. A pipe (intake port) runs along the engine the head. The carburetor had a U-bend very similar to that one Dwight's engine. George drilled down the parallel legs, then drilled across the bend to intersect the first holes. A little silver solder and you'd never know. Ignition is a low-tension coil feeding spark to an igniter in the cylinder. The coil is a new item produced by BAEM club member Mike Neal. George likes all the external mechanism on the hit-n-miss engines, but said this is such a small engine that there is hardly room enough to hang all of it onto.



TECH TOPICS

Nov. 19, 2005

Carl Wilson

Chuck Evans of Amsoil lubricants presented the November Tech Topic. A. M. (Al) Amatuzio founded Amsoil, Inc. in 1972 to develop, produce, and market synthetic lubricants for automotive applications. Al was a fighter pilot and commander of a fighter squadron in the 1960's. Synthetic oils were used for the lubrication of jet turbine engines, and Al decided to bring this technology to the automotive market. He completed the development of a synthetic oil in 1972 and in 1973 established a multi-level marketing system to distribute and sell his products. Today Amsoil makes a wide variety of synthetic oils, greases, transmission fluids, etc. for a wide variety of applications. The home website is: <http://www.amsoil.com/Index.aspx>



Tech Tips:

Tom Armstrong had to remake the valves for his model of the Mery Explosive Vapor Engine. Roland Morrison, the designer of the model, specified valves made from cast iron heads riveted to drill rod stems. Tom made the second set by silver soldering the heads to the stems. He says that he used regular solder and flux, and that the silver ran to the steel before the cast iron. He had to continue heating to complete the joint.

Tom uses a pressure testing fixture to check the seating of the valves. Seating Mery's valves has been a difficult job, and the reasons for this are still unknown. They leak at 20 or 30 psi. Tom tried something new this time that seems to work. After lapping, cleaning, and checking for an even marking on the valve head, Tom put the valve back into the chamber, grabbed the valve stem in the chuck of the drill press, and with air pressure on the top of the valve, ran the drill at 400 rpm with no abrasive. He says this burnishing operation significantly improves the valve seal.

Upcoming 2005 Events

By Dick Pretel,
Events Coordinator

West Coast Engine Exhibitions For 2005

TBD 2006

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

FOR SALE

Craftsman metal lathe, 6"X12", model #109-20630 on heavy duty metal stand, 4-jaw chuck, 3-jaw chuck, new never used, tailstock live center, new never used, Jacobs chuck, new never used, Manual, thread cutting, provisions for cross feed and tailstock for wood turning, extra accessories, including motor and vibration free belt. This is the earlier Craftsman with the inverted V ways, not the flat-way lathe.
Call Herb Rehmus (831) 637-2548

FOR SALE

MAXNC15 MILL
18" bed
6" spindle to bed
3 AXIS US Digitizer Control
\$2500
Call Eric Stokes
408-648-7319

WANTED

Daniel Corrillo, (831)673-1486 wants to buy a
Craftsman or Atlas 12"X36" metal lathe with taper attachment.

FOR SALE

"Model Engineer" magazines, 1898 through 2004, many bound, some hardback, 3 issues missing, plus 2 indexes. \$2750 Chris Leggo, (510)247-0961. oinck1@aol.com

Check out the BAEM Web Site at www.baemclub.com
Send your project photos to the
Web Master Jim Piazza.
Phone: 408-446-4825
Email: jdanpiazza@comcast.net

FOR SALE

Tree Journeyman 310 – 3 Axis CNC Mill
DynaPath - Delta 10M Control
Table 10" X 44"
Spindle Taper 30NMTB With some tooling & manuals
\$4500.00

David Palmer 707-938-2181
Brian Palmer bdpalmer@sonic.net

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