

The Crank Calls

December 2006

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2007 membership dues are due and payable

NEXT MEETING
 Dec 9, 2006 AT
 Robert Schutz's Shop
 366 40th St. Oakland CA
 Doors open at 10 AM
 Meeting Starts at 11 AM

Upcoming Events

POTLUCK HOLIDAY PARTY
Date is SECOND SATURDAY, Dec. 9
Time: 11 a.m.

MEETING NOTES

Nov. 16, 2006

Carl Wilson

The December meeting of the Bay Area Engine Modelers will be Dec. 9, 2006 at 11AM. This is our annual Christmas potluck lunch held on the second Saturday of the month rather than the third. Bring eats, snacks, and any engine or mechanical toy that you can fit into the car. Join us for a time of fun and feast.

BAEM welcomed four guests at our November meeting: Daniel Debiccari, Tim and Jiru Horn, and Jeff Key.

Mike Rehms is continuing to plan an engine/hobby show to be held in the Veteran's Hall, Vallejo, CA, in July of 2007. He suggested that the club hold it's July meeting at the hall at the regular time, and that club members remain on site to assist setting up the show to be held on the following day.

Mike is also planning a group trip to the model engineering show at Harrowgate, England, in May. At this time he is asking for commitments from club members that plan to attend and show their engines.

Pat O'Connor presented a plaque and gift certificate to Bob Kradjian in honor of his many years service to the club as Secretary and Event's Co-coordinator. Thank you, Bob, for a job well done.



The Bit and Pieces table and its goodies.



Steve Jasik says, "It's about time that I won one of these!" This is an offset rotary broach and Steve has been trying to win one of these for at least a year. What does it do, you ask? Well, it makes odd shaped holes. The tool is

held by its shank in the tailstock of a lathe and presented to a hole in the material held in the headstock chuck. The cutting tool is the shape and size of the desired hole, in this case a hexagon. The axis of the cutting tool is offset from the axis of the bearings in which it rotates and the result is that the cutting edges “wobble” around and nibble the shape. Squares, splines, dees, and other shapes can be cut.



Ken Hurst presented one of his first engines, a 1 1/2” bore Stirling cycle engine built in 1991 and finally got running in 1995. Ken says it will run at 600-700 rpm on a propane torch.



Dick Remington is building this 1/3rd scale model of the Red Devil made by the Cavanaugh Darley Gas and Gas

Engine Company in 1903. It features an 11/4” bore cylinder on top of a 1 3/4” stroke crankshaft driving an 8” diameter flywheel. The model stands 17” high. More details are available at the vendor’s website: <http://www.shelfpetmodels.com/index0904.htm>



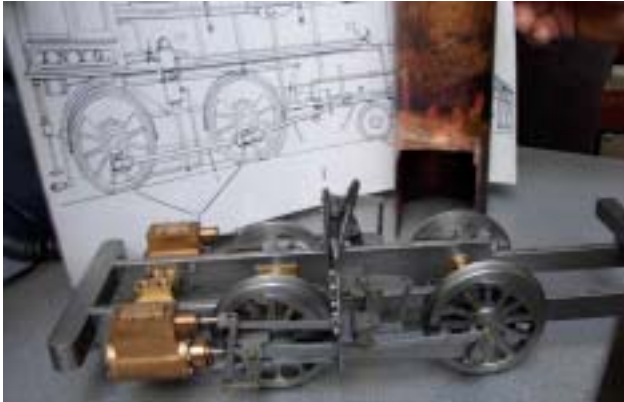
Dwight Giles showed a gear oil pump suitable for a V8 engine based on a design in Strictly IC magazine. Dwight machines his own gears and carefully measures their optimum center distance between them in a special fixture. He added a relief valve to limit the maximum pressure developed by the pump: seems that Ken Hurst took an oil bath from an unrelieved pump.



Al Vassallo made his first steam engine when he was 10 years old. This turbine is considerably newer but shows its toy heritage. The boiler is stainless steel spun over a former and the nozzle sprays steam over the simple wheel.

(Atkinson – picture lost, sorry George)

George Gravatt ran this beautiful Atkinson engine for us. It started easily, but as he noted, the mechanical complexity of the linkages that are used in place of the timing gears cause the engine to run a little noisily. It is not well balanced and the pins and bearings in the linkage are subject to wear. The castings kit is by Joe Tochtrop.



Peter Lawrence brought his Pennsylvania Railroad switcher designed by Kozo Hirokoa, originally in 3 1/2" gage. Peter is building in 2 3/4" gage: F scale.



Every now and then I get the urge to play in the sand, that is the foundry sand. This time I cast the sheave for the electric generator that I am building. Shown are the first

Stuff for Sale

Steve Jasik (your editor) has 7.25" radial saw blades, and other miscellany

Also a working CNC Lathe, a 1970 Pratt & Whitney, Star-turn 8-15 for \$500. Comes with a RS-232 serial port, ...

sheave that I machined from steel, the pattern with its follow board, and the finished casting in aluminum.

TECH TIPS

Dwight Giles: One way to "persuade a reamer to cut just a little bit smaller" is to heat the work before reaming. Upon cooling, the hole will be smaller than normally cut by that reamer.

Tom Hare recommended a citrus-based solvent sold by LPS. It is safe, has low flammability, and no residue. He says, "Try it, you'll like it."

Dwight talks about dividing heads, ...



BAEM members at GEARS in Oregon



Randal Cox (above) John Vietti (below)



Jim Moyer & son and their Chevy V8



Eugene Corl and his Chevy V8

