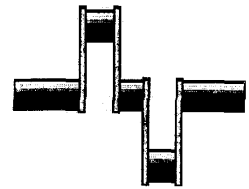


The Crank Calls

The Bay Area Engine Modelers Club, Branch 57 of EDGE&TA



December 2001

www.baemclub.com

President.....Ken Hurst.....(707) 257-2481.....kwh1588@aol.com
Secretary.....Bob Kradjian.....(650) 343-7585.....bkradjian@aol.com
Treasurer....Lewis Throop.....(650) 941-8223.....lthroop@aol.com
Editor.....Jim Piazza.....(408) 446-4825..jpiazza@ix.netcom.com

NEXT MEETING
8 December, 2001
AT 12 PM
AT
Robert Schutz's SHOP
366 40th St.
Oakland, CA



This is our annual Pot Luck holiday party and engine run. Bring your favorite food or dessert for all to enjoy.

Dues are Due. Get them in early and avoid the rush.

I held the press and inserted Roger Butzen's picture of his blown V-8. Hope to have more picture from Roger for the next newsletter.

BAEM MEETING NOTES

November 17, 2001

Bob Kradjian, Secretary

Outgoing president, Pete Brooks, was not able to attend as he was at his first day of work in a new position. Congratulations Peter, and thanks for a job well done.

I had the honor of handing the gavel to our new President, Ken Hurst, who briskly and expertly launched into his new duties after some rousing applause.

Visitors include Greg Hinsley and Frank Pellizzari.

Welcome to our newest member, Irv Stevenson who brought a nifty cam grinder to be described below.

Congratulations are in order for Chris Leggo whose Newcomen engine was featured on the cover of Great Britain's *Model Engineer*. He is, indeed, "a senior chap." The caption reads: "A working miniature replica of Newcomen's atmospheric engine of 1712 which was designed and used to pump water from mines of the day." This is a signal honor as *Model Engineer* is the first periodical devoted to our hobby. (My replica first edition is dated January, 1898!)

Treasurer's report: Lew Throop tells us that we are solvent, but some dues are needed. Check with him to continue receiving the newsletter. It is \$25.00 for the year, a heck of a deal.

The secretary had nothing to report except that we have been contacted by the Palo Alto Concours people who want us back again in 2002.

First Pops:

Ken Hurst has *two* new Wall 30cc singles. Both have super compression, nifty powder coating finishes, are strong runners, and "jump all over the place." His pull start Torrington clutch and a 1/4" shaft were no match for the high compression. Stronger measures were necessary to fire these babies up.

George Gravatt has had first pops on his John Palmer hit and miss (the J.E. Jr.).

Finally, Dwight Giles has his second Upshur engine running. This is a horizontal single, 4 cycle, not hit and miss. Dwight changed the spark plug position to remedy a fouling problem. Building engines in batches seems to be the rage these days. He also showed us a chucking fixture for turning oval tool handles from hardwood. Plans are available.

As noted by Jim Piazza, the annual Christmas Party is on December 8 which is the second Saturday in the month. After discussion, we settled at noon to 4 pm. Robert will open the doors at 11 if you want to come early and socialize. Bring pot-luck goodies, both regular food and dessert-type fare. We'll have a good time with no business or tech talk. Mainly though, BRING ENGINES. If it gets too smoky, Robert will hoist the back door. Robert also says that we can park on the vacant lot just adjacent to his building, but that we will have to jump the curb to get out.

The group decided to purchase a new printer to help our newsletter editor, Jim Piazza, to speed the printing process, which now takes up about eight hours. Jim is settling in nicely to his "two month" job that is spinning toward its first year. We greatly appreciate Jim's efforts.

Mike Rehmus (who provides us with great photos each month) announced that the "Cabin Fever" miniature engine show is scheduled for next January 26-27. He feels that the venue and the attendance will be better than the NAMES show. Cabin Fever in the Lehigh Valley area of Pennsylvania. For information check www.cabinfeverexpo.com.

Bits and Pieces:

Rudy Pretti has done it again. His *Little Angel* is truly an angel and not the little devil it was last month. This involved new valve seats, a trial of many different venturi sizes to restrict intake airflow, and finally a Teflon piston ring to prevent plug fouling. The result is a smooth, quiet runner.

I showed a cutaway of a tiny 1/2-scale model of a model. The engine being a 0.059 cu. inch replica of a Fox 0.59. This will be eventually powered with a tiny Maxon electric motor and mounted alongside an intact 0.059. The motor was a gift from Corey Renner.

Carmin Adams brought a nicely finished ball turning tool made from Jerry Howell plans.

New member Irv Stevenson bowled us over with a nifty, home designed, camshaft grinder that mates up with his 12" Clausing lathe. The lathe spindle drives the work piece with a chain and uses a square shaft for the indexing. There is a 10:1 reduction from the master to the work piece lobe, so master contour finish is not too critical. Irv is building a *Sea Lion*. This is a unique and ingenious solution to a sticky problem in miniature engine production. We eagerly await the engine. Please bring it to the December meeting in its unfinished state.

Cory Renner made some elegant tool holders and a spindle for tool post grinding all anodized by a friend in Oregon. The grinder uses standard Dremel bits and has already proved useful.

Al Vassallo brought a steam engine that he built many years ago. It looks like a Stuart vertical twin. He then designed and installed his own reversing gear. Al astounded us all by hoisting the intake pipe to his mouth and blowing. The little engine spun into motion! Either Al builds an efficient engine with minimal friction or he's got a great set of lungs!

Mike Mueller is converting a *Shop Task* three-n-one tool (he fondly referred to it as a "Slop Task) to CNC. He used a kit for the power supply and steppers. It will use DOS and G-code. We would love to see the working bits when finished. The computer and machine would be too hard to lug around.

Carl Wilson gave us an update on his Mery project and showed us a neat hand wheel with a retracting hand post to fold out of the way when more space is required.

Scott Overstreet then introduced part two of Roger Slocum's excellent presentation on the intriguing matter of heat-treating metal.

It was great to see Scott looking so well only three weeks after a surgeon turned his colon into a semicolon. He offered to show his scar and provide color photos of his benign lesion. For some reason, the group decided to forgo this treat. On a more serious note, both Scott and I urged all BAEMers over 50 to have a colonoscopy. After all, we want to have you making engines well into your nineties.

TECH TOPICS

BY
SCOTT OVERSTREET

Thanks to Roger Slocum for a well presented and very valuable two session presentation on basic steel metallurgy and heat treating in the home shop. I learned a lot from Roger's efforts; I hope that most of you did too. This sort of result is, of course, the object of all Tech Topics presentations. Please feel free to ask Roger for more on heat treating when questions come up and the same goes for precision grinding too. Thanks again Roger.

There won't be a Tech Topics presentation next meeting, however, here are two Tech Topics tasks for you.

Rudy Pretti will lead a series of sessions starting in January – in which he plans to take us into various areas of model machining where machining methods not talked about in the typical “how to” books really help. Subjects that he now has in mind in no particular order are - “Starting on a Casting,” “Threading Tricks on the Lathe,” “Holding Small Parts,” “Scalloping,” “Four Jaw Tricks,” “Pipe Threads,” “Forming Tools,” “UNJF Threads,” “Doing Good Work on a Worn-out Lathe,” “Threads - Choice and Fit - What's Right for the Job?” and more. I'm sure you get the gist of what Rudy has in mind. Now, your job. Rudy has asked me to ask you for more subjects that you would like to be discussed. Please give him some thought and give him a call at 510 581-6929, shoot him an e-mail at rmpretti@msn.com or tell him face to face during our upcoming Christmas party.

And I have a need — Sometime early next year I would like to organize a series on ignition. To do this right, I need subject details that you would like discussed and volunteer speakers - let me know your thoughts: 650 941-3714, scott@becklawfirm.com or face to face. Thanks.

And my suggestion for the new year - Get a colonoscopy done - It doesn't hurt, insurance will pay for it, and it just might save your life. And don't tell me that you had a clear sigmoidoscopy - so did I and a subsequent colonoscopy found three polyp sites, any one of which could have terminated me in a few years. That's all for now.

Scott Overstreet

For Sale

Craftsman 6 x 20" lathe on stand with wheels. Computer, keyboard, mouse and monitor.
Manual.
Reversible motor.
Threading dial.
X & Z axis DRO
 X axis. Digital Scale is digital scale connected to computer thru RS-232.
 Computer application specs
 Large display.
 Inches or Millimeter.
 Diameter or Radius. Preset dia or rad. using keyboard.
 Graphical display of speeds.
 Z axis 6" digital scale direct reading. Not connected to computer. Larger scales are

Change gears (new).
Steady rest (new).
KRF quick change tool post and 7 holders. 2 holders one for dial indicator and one flex shaft grinder
Live and dead centers
Rocker post.
R and L 3/16" tool holder.
1/2" drill chuck #1 Morse taper.
Carriage stop can be replaced with dial indicator (dial indicator not included).
Face plate.
4" 3 jaw.
4" 4 jaw.



Ken Hurst's 2 Wall 30 cc engines. You have to love that powder paint. Yellow and red.



Rudy Pretti's pretty Little Angel.



Bob Kradjian's nice cutaway.



Bob Kradjian's Fox scaled down replica.



Carmin Adam's ball turner.



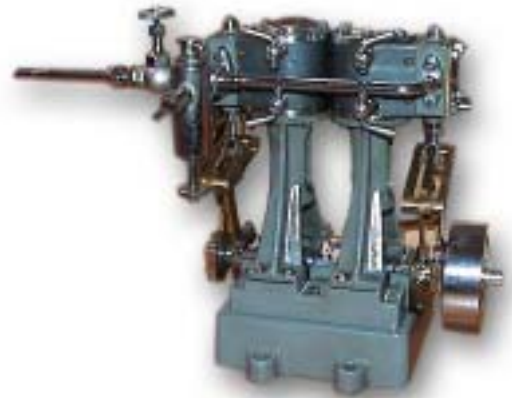
Detail of Carmin Adams's ball turning tool.



Irv Stevenson's lathe mount cam grinder.



Corey Renner's tool holders.



Al Vassallo's twin cylinder steam engine.



Mike Mueller's CNC electronics.



Roger Butzen's Blown V-8. Roger says, "I got my V8 with the roots blower running this weekend and it sounds GREAT!!!"



Carl Wilson's work lights.



No! These aren't those things you stick on the bottom of your bathtub. These are the reed valves for Jim Piazza's pulse jet.



Bob Kradjian's Economy



Lew Throop's Exhaust Manifold.



Bob Kradjian's Fox replica.



I.C. engines run petrol fuel. Meetings run on coffee and donuts.