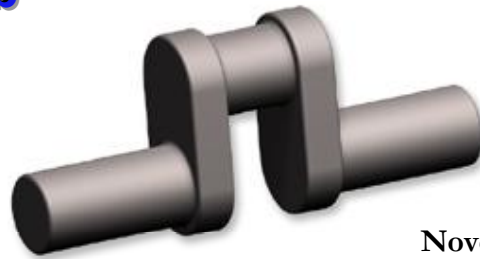


# Bay Area Engine Modelers Club

## The Crank Calls



November 2015

President	Don Jones	dj712@sbcglobal.net
Secretary	Bob Kradjian	bkradjian@aol.com
Treasurer	Paul Denham	pedenham@comcast.net
Events Coordinator	Steve Hazelton	steve.hzltn@gmail.com
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Editor/Printer	Larry Zurbrick	baem_editor@pacbell.net

### **MEMBERSHIP \$25.00 US**

Contact Paul Denham at  
pedenham@comcast.net

#### **NEXT MEETING**

November 21, 2015 at  
Chabot College, building 1500  
25555 Hesperian Blvd, Hayward 94545  
Doors open at 9:00 AM  
Meeting starts at 10:00 AM

#### **Upcoming Events**

BAEM meetings: 3rd Saturday of the month

**Annual Potluck Luncheon at our December 12th meeting. This is the 2nd Saturday of the month! Bring food and other goodies as well as engines to show and run.**

#### **MEETING NOTES**

October 17, 2015

Bob Kradjian

President Don Jones called the meeting to attention promptly at 10:00 am.

**VISITORS:** We had a visitor from Germany! Stephan Bayerbach was visiting the States on business, but learned about us from the Internet and dropped in. We had a nice visit and he was invited to visit the shops of several members.

**FIRST POPS:** None reported.

**MEETINGS:** The Pacific Coast Machine Tool Show this year was very lightly attended. Some are concerned about the longevity of this fine event.

**TREASURER'S REPORT:** We Paul Denham reports that we solvent. Paul's wife is the genius who will oversee our financial affairs. Thanks to both!

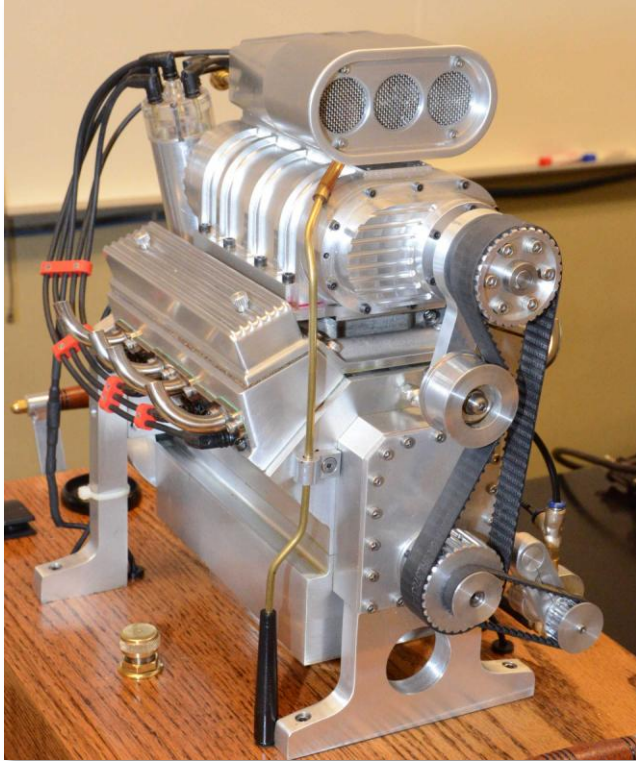
**CLUB BADGES:** If you need a badge, contact Mike Rehms (mrehms@byvideo.com) who has offered to produce them.

**EVENTS:** **There are no events scheduled with the exception of our annual December luncheon for next meeting on December 12<sup>th</sup>, not on the 19<sup>th</sup>.**

Steve Hazelton, our Event Coordinator suggests that we should reach out to other modeling groups for additional engine shows for the club. Steve also suggests a club calendar for club events. This is an excellent idea and will be included in our monthly Crank Calls newsletter.

The Maker's Faire at the San Mateo Event Center was suggested. We have exhibited there in the past, and were hampered by stringent Fairground rules, extreme crowding, and a drafty outside venue. We have already exhibited at the Hobby show in Petaluma with considerable success.

## BITS AND PIECES



Dwight Giles and Paul Denham brought back John Gilmore's fine V-8. Both made minor alterations to

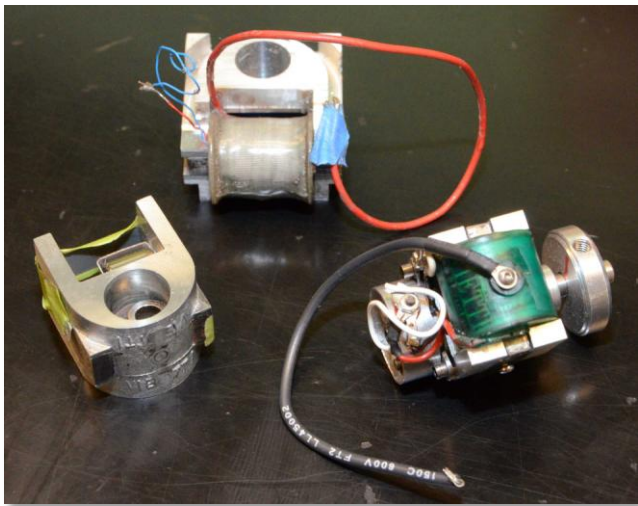
John's build and were happy with the result. It fired up nicely and the group roundly applauded their efforts.



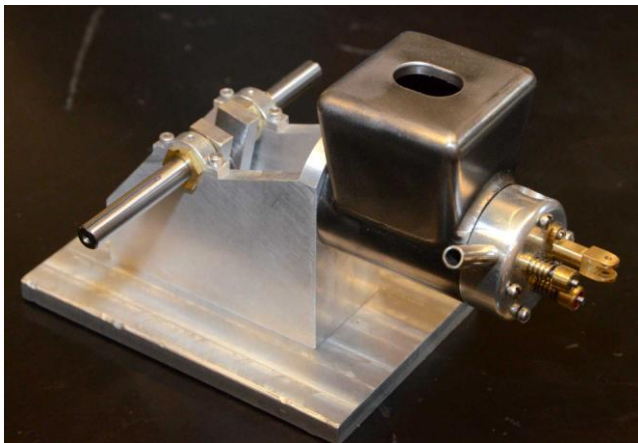
John Palmer was called upon to identify a very old and weathered, mostly wooden, antique device that Jim Bove brought at an auction. Neither was able to identify its function. It is so old that it was fastened with handmade square headed nails. Its function will remain a mystery.

Your secretary showed the group a shop-built tool to firmly grasp a polished flywheel without marring the surface. It was fashioned from an old Vice-Grip and a leather belt with brazed flanges on the jaws. It amounted to a "poor man's" lens wrench.

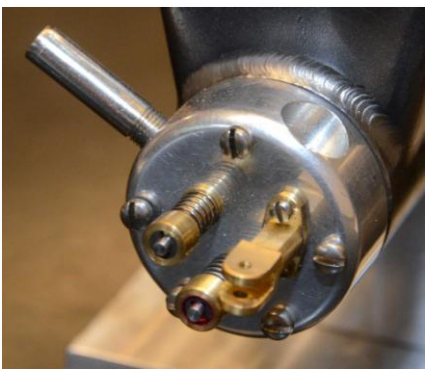




Paul Denham discussed John Vietti's wondrous magnetos. John kindly furnished Paul with a cast frame for a new magneto. Number 44 and 46 sized wire was wound by Paul's brother. Seventeen thousand windings were needed. All layers are carefully separated by paper insulation. An additional technique to bolster the spark is the sharpening of both the stationary and the moveable electrodes on the spark plug(s).



Mike brought us up to date on his CNC engine project and acknowledged the help of Dwight Giles on a new crankshaft. His difficulties with learning CNC continue, but he has found a program called



Cut2D-Vectric that seems to be filling his needs. Their videos on You Tube are instructive. Jim Piazza says that Solidworks seems to be the standard. AutoCAD Fusion 360 (free) is worth a look. For inexpensive engraving tools, some members are using 4/0 center drills. A You Tube site called NYC CNC that seems to feature Tormach equipment and has many videos of interest.

A lengthy and lively discussion of the intricacies of three-phase power followed a discussion brought forward from the last meeting.

An inexpensive work-around for 110-volt use is the combination of a large potentiometer, a bridge rectifier (a diode bridge) and a surplus direct current motor. All of the above was purchased at Alan Steel a few years ago for less than a hundred dollars. They do not function the same as a Baldor controller, requiring small increases on the "pot" to account for cutting load. The DC motor was made to power aircraft flaps and fabrication of a flat mount will be needed

Jerry Franklin is still working out the small bugs from his older lathe. He is making test cuts and zeroing in the headstock/tail stock relationship. He is even truing the ways. His latest test cuts are very close to optimal considering the age of the machine. Mike Rehmus claims that the Sherline people use a non-marring hammer tap on the headstock for a 'thou' or two adjustment. And, just incidentally, the little Sherline lathe has a tiny DC motor that is surprisingly strong. The importance of leveling a lathe, not only lengthwise, but fore-and-aft was emphasized. It seems that cast iron will warp when misaligned. Also, keep the gibs on the cross feed reasonably snug to prevent chatter.

An underlying theme of this month's meeting was the help that is furnished from member to member. That has been a constant for the more than twenty years that BAEM has existed.

**Remember, the December meeting is the second Saturday---the 12<sup>th</sup> at 11:00 am. Bring food and other goodies as well as engines to show and run.**