

The Crank Calls



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MEMBERSHIP \$25.00 US
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pedenham@comcast.net

NEXT MEETING
Saturday, October 16, 2021, at the
Golden Gate Live Steamers clubhouse in
Tilden Park, Orinda, CA
Gate opens at 9:00 am
Meeting starts at 10:00 am
Meeting will be outside without masks.
Mask required in clubhouse.

Upcoming Events

- Oct 16: BAEM meeting at GGLS
- Nov 20: BAEM meeting at GGLS
- Dec 11: BAEM meeting/potluck at GGLS

See below for more details regarding events. Watch Crank Calls, BAEM emails and BAEM web page for updates. BAEM meetings are usually 3rd Saturday of the month except December.

MEETING NOTES

September 18, 2021

BAEM met outside at Golden Gate Live Steamers in Tilden Park on Sept 18, 2021. There were 23 members in attendance.

. He noted that the GGLS open house would be Sep 19 and Paul and other BAEM members are planning to show engines. GGLS will provide food for GGLS and BAEM members.

NEW MEMBERS/VISITORS

BAEM members are reminded that visitors are welcome at our club meetings, and we're always looking for new members.

CLUB BADGES

If you are a member in need a badge, contact Mike Rehms (mrehms@byvideo.com) who has offered to produce them.

TREASURER'S REPORT

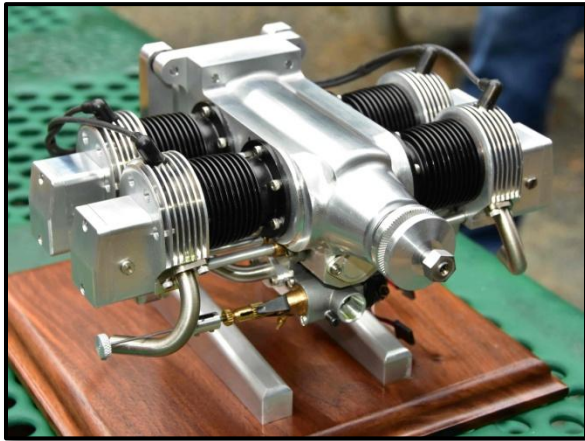
BAEM president Paul Denham reported the club is financially solvent.

UPCOMING SHOWS/EVENTS:

Shows: Branch 13 Antique Equipment Show in Galt, CA on Oct 1-2. Ray Fontaine plans to

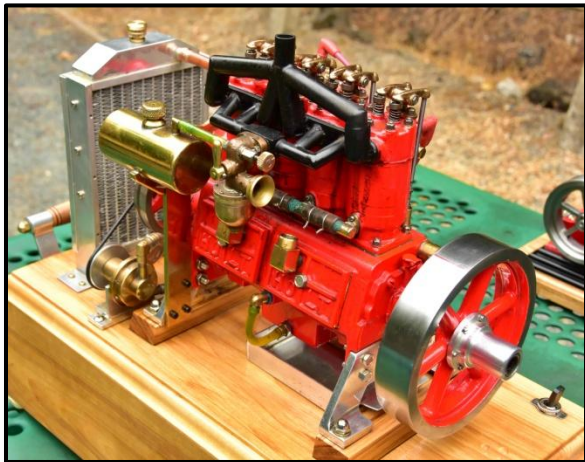
attend. Branch 13 also plans a swap meet October 30-31 (flyer attached).

FIRST POPS



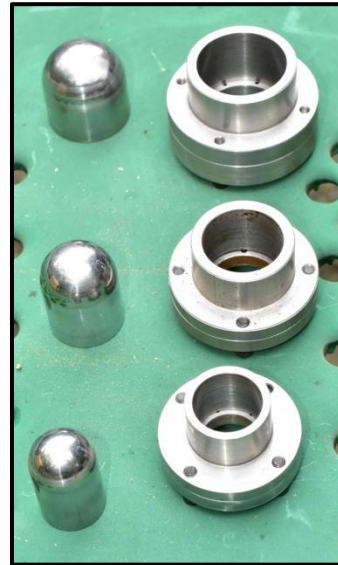
John Meredith brought in a very impressive opposed 4 cylinder air cooled engine he built using the Bruce Satra O-440 design. John described a number of design changes he implemented.

BITS AND PIECES

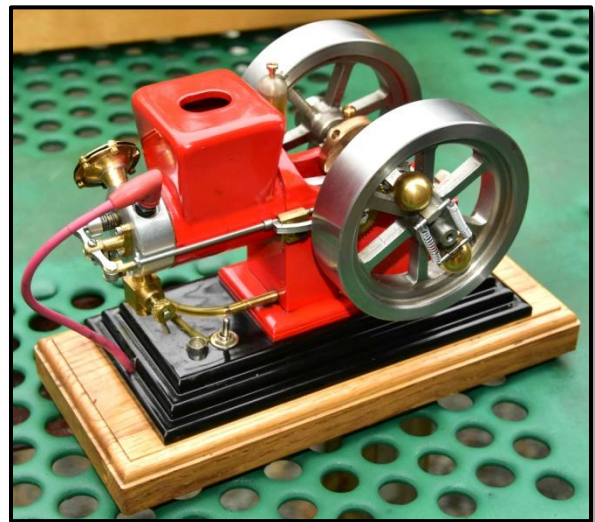


Dwight Giles and Paul Denham showed an in-line 4 cylinder Holt engine that had some interesting history. Dwight acquired the engine from a Mare Island acquaintance and believes it was machined in the late 40s or early 50's. Dwight did considerable rework (rods, pistons, rings, display box). He then sold it to Al Aldridge. Al gave it back to Dwight when Al moved to Oregon. He has since indicated he would like it back. Paul did some ignition work

and got it back in running condition. Apparently Paul's drill caught fire while trying to get it started and break in the tight rings.



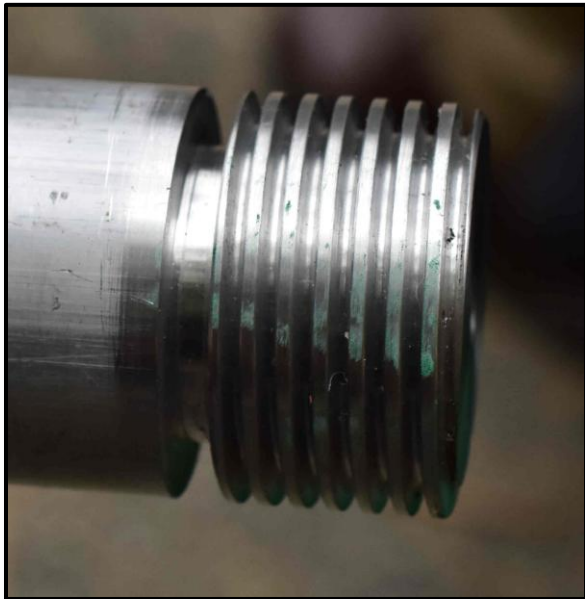
Dwight Giles brought in a set of dies for forming brass mufflers. Ray Fontaine is borrowing them for some of his projects.



Paul Denham brought his nice GEM1 with a very ingenious hit-and-miss governor of his own design. Paul reported several engines needed pre show maintenance after the long stand down.



Peter Lawrence plans to show engines at the GGLS open house. He has a shop built Edison dynamo powered by a Stuart #9 steam engine which needed the new crankshaft. Peter showed the new crank with counterweights fabricated from O-1 steel rods and plate. He used V-blocks for alignment while the Locktite cured.



Dwight and Mike Rehmus are collaborating on an air cooled vertical GEM derivative. Mike brought in a piece of aluminum rod that had cylinder cooling slots cut. Mike attempted to cut the cooling fins as a continuous spiral instead of the conventional method of cutting individual fins. Apparently there were some issues involving broken cutters.

RAMBLINGS

Working on an interesting project? Got a great BAEM story? Share it with us here.

Send us pics and project details, and your hard work will be shared with the entire club.

Broader Availability of Solidworks Education CAD Software

Dassault Systems acquired Solidworks and has made changes regarding distribution and licensing of the Education version of Solidwork. They now call it "Solidworks Community Access" which is available for qualified educators, students, military veterans, sponsored organization members, makers, and hobbyists. Annual license fee is \$99 for single seat non-commercial use.

<https://www.solidworks.com/support/community-download> is a link to get started for community access. The link at <https://www.solidworks.com/product/students> is focused on students and offers desktop and a less expensive cloud based solution.

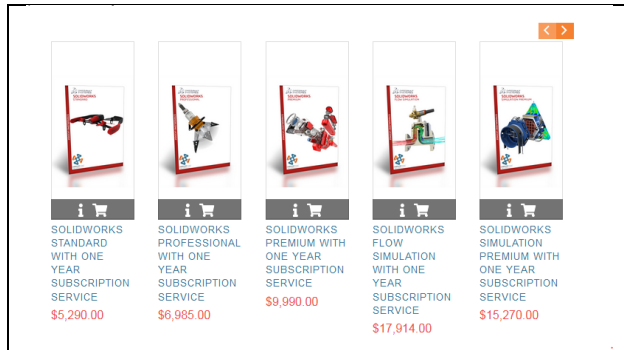
The student edition is full featured suite of software and includes Solidworks CAD, dDrawing, Composer, Composer Player, Electrical, Visualize, and a number of add in tools including CAM. The company states that "The student product is for individual student use only and not for research, teaching or classroom use." Printed drawings have educational label:

**SOLIDWORKS Educational Product.
For Instructional Use Only.**

Personal observations:

- Solidworks is a feature rich world class 3D CAD program with a non trivial learning curve. There are on line tutorial resources and in the San Francisco Bay area, at least two community colleges offer manufacturing courses including Solidworks.

- Dassault is now offering a "3D Experience" web site supporting their entire product line. It includes product information and user forums that may be of interest.
- CAD solid model files are used by both additive manufacturing slicers programs and subtractive manufacturing CAM programs. Solidworks supports a wide variety of these solid model file formats.
- The \$99 license fee is more than last years veterans \$20 fee but still a lot for the money. Consider the commercial licensing form a recent screen snip:



WANTED

BAEM member Larry Bunch wants to purchase a Logan 11 x 36 Lathe and asks that anyone who knows of one for sale please contact him.

Larry Bunch
209-404-6700
wendyroky2@gmail.com

FOR SALE

Rong-Fu RF31 Mill Drill & stand (made in Taiwan) with DRO on X-Y axis plus quill mount for dial indicator on Z axis. Has power down feed and table feed. Includes swivel vice with degree scale, a sine vice, and a rotary table w/ 3 jaw vice. Other accessories include 3 drill chucks, parallels, adjustable parallels, fractional

R8 collet set, face mills, vertical boring holder, boring bar set, end mill sets, clamps and jacks. It weighs 600 lbs. without the stand. May be able to arrange for forklift to load. Asking \$3500 for the lot.

Mike Phelan
925-376-3191
phelanfolks@comcast.net

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BAEM member George Spain is offering for sale three different professional-level cylinder boring devices. All are used, but in good condition.

1. VAN NORMAN 777-6 Boring Bar.

Boring bar with stand and tool kit.
Price: \$ 1500

2. VAN NORMAN 944 Boring Bar.

Boring bar with stand and tools.
Seen elsewhere for \$ 2,200 – 4,800.
Price: \$ 1500

5. STRONG Boring Bar.

Boring bar, table model, with tools.
Bores 40mm to 70mm.
Seen elsewhere for \$ 1,600 – 2,750.
Price: \$ 1500

For further information, contact George Spain at
Phone: 707-342-2931
Email: geobev11@att.net

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Steam Demonstration Plant



Henry Cranna, longtime member of West Valley Live Steamers, built this steam demonstration plant. It has a locomotive type boiler, twin cylinder oscillating engine, and a control panel. It was intended as an educational plant in how steam is generated, controlled, and utilized. Boiler operates on propane and a 5 gal tank is included. It is built on a shop cart with casters. Best offer.

Contact Carl Wilson for additional details.

Carl Wilson
Phone: 650-967-7715
Email: toolcarl@comcast.net

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Dwight Giles has some stuff he is offering:

-1.5 hp electric motor. 1750 rpm. 110/220v AC single phase. Heavy! Price: Free!

-Engine Mount Box. Beautiful wooden box for mounting your larger engine. Perfect for a Black Widow V8. 3 available. Price is \$200 donation to club.

Contact Dwight at jig313@aol.com or phone: 707-648-1481

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Paul Denham mentioned that he had received an e-mail from someone saying he had a Unimat 3 available. If interested, ask Paul for contact details.

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Got something you'd like to sell? Your ad is free and will be seen by likely customers.

NEWSLETTER CONTRIBUTIONS

Your contributions to this newsletter are appreciated: workshop reports, tech articles, reviews, historical pieces, whatever. You contribute, we'll figure out how to post it. Send your contributions to either or both of us. Thanks!

-Mike Byrne at mgbyrne3@comcast.net
-Wes Wagon at weswag@ix.netcom.com





*"Northern California's Oldest & Biggest
Antique Agricultural and Industrial
Equipment Swap Meet"*

Branch 13 EDGE&TA

Swap Meet

SATURDAY AND SUNDAY, OCTOBER 30 AND 31, 2021

**DRY CREEK RANCH HOUSE,
RIO LINDA, CALIFORNIA**

BUY, SELL OR SWAP

**Antique Gas Engines • Tractors • Tools • Parts and Components
Farm Equipment and Implements • Accessories • Collectibles**

**SELLER FEE \$10⁰⁰
NO BUYER FEE**

**Free Buyer Parking,
Lot's of Shade!**

**Early set-up and swap, Friday
after 9am. Swap Meet Opens for
Buyers and Sellers on Saturday
from 6am to 5pm and Sunday**

from 6am to 12pm

Camping Available

**\$15 per night (dry-camping only)
Sorry, no hookups!**

For further information, contact:

**Rich Cleland
(530) 867-7560**

vinrcengines@gmail.com

**Or: Robert Facino
(916) 417-8732
rtsco@netzero.com**

**We were moved to a new location due to
the current availability of the Woodland
Fairgrounds parking areas. Only minutes
from our original location! Food available.
Questions?...Call Rich or Robert!!!!**

