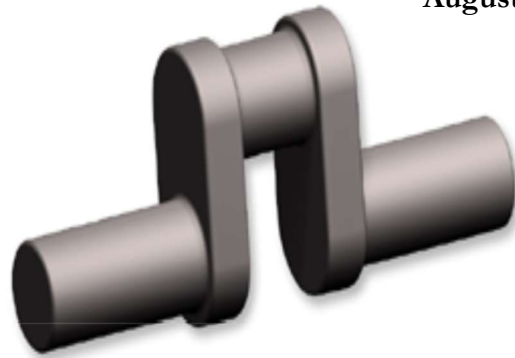


# The Crank Calls



President	Paul Denham	pedenham@comcast.net
Secretary	Your name here!	Please consider volunteering
Treasurer	Deirdre Denham	pedenham@comcast.net
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**MEMBERSHIP \$25.00 US**  
Contact Paul Denham at  
pedenham@comcast.net

**NEXT MEETING**  
**Saturday, August 21, 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**

- Aug 21: BAEM meeting at GGLS
- Sep 18: BAEM meeting at GGLS
- Sep 18-19: GGLS Fall Meet & Open House
- Oct 2: Antique Equip Show in Galt, CA
- Oct 16: BAEM meeting 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

July 17, 2021

BAEM met at Golden Gate Live Steamers on June 19, 2021. 20 members and guests were present.

## NEW MEMBERS/VISITORS

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

## TREASURER'S REPORT

BAEM president Paul Denham reported the club is financially solvent. He also noted that the September meeting date would be the same weekend as the GGLS open house. There was some discussion of club purchase of display tables. Storage location may be a limiting factor.

The 2021 dues of \$25 have been due since the beginning of the year. Pay now if you haven't already done so. Give your check to Paul Denham. Dues can also be mailed to

Deirdre Denham at 1937 Merchant St, Crockett, CA 94525. Make checks payable to "BAEM".

## CLUB BADGES

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

## UPCOMING SHOWS/EVENTS:

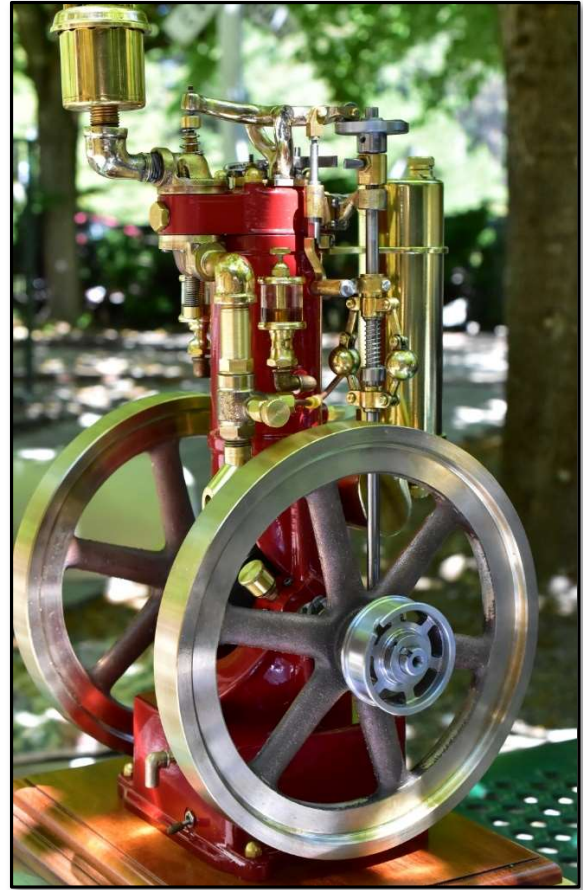
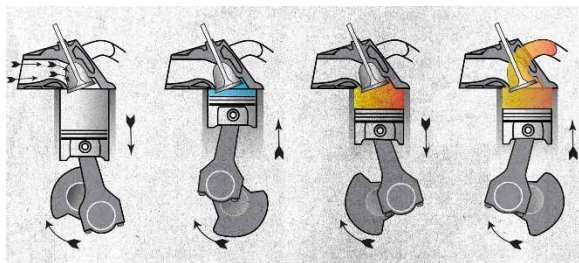
- Goodguys West Coast Nationals show at the Pleasanton Fairgrounds, Aug 27-29. We decided not to participate this year.
- Golden Gate Live Steamers Open House scheduled for September 18-19.
- Antique Equipment Show at McFarland Living History Ranch in Galt, CA will be the first Saturday in October: Oct. 2.

## FIRST POPS

No first pops were reported.

## BITS AND PIECES

Paul Denham continues to refine his Red Devil project. The Red Devil is a 1/3 scale model of a 1903 vertical hit and miss engine with low tension ignition, made from a casting kit sold by Shelf Pet Models.



*Paul Denham's Red Devil*

Paul's model now has new paint and polished brass to go with his very nice finger joint display box. Paul shared several recent issues with the low-tension igniter, including short lived contact material and problems with a low impedance coil. Iron contacts wear out quickly, so the solution is to use tungsten, fabricating the contact points from TIG welding electrodes. Problems were apparently sorted after the meeting, and the running engine can be seen at Paul's YouTube site, here: [https://youtu.be/nbDqc\\_gjLpY](https://youtu.be/nbDqc_gjLpY).

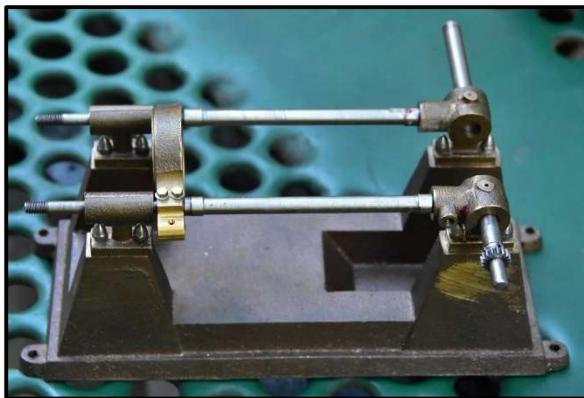
Paul was interested in the Frisco Standard engine, also by Shelf Pet Models, but had to put his wife on the phone to convince Bob to assemble an out of production set of castings.



*Electronic lead screw circuitboards*

Other projects discussed included an electronic lead screw (ELS) retrofit for his father's shop made lathe. Paul is using Claough42's ELS design, which allows metric and imperial thread cutting without change gears.

Paul also acquired the plans for castings for a Cole steam engine, which he got from Dwight Giles. David Palmer sent Paul a copy from his 2009 build (that was seen running at the Penngrove Machinery and Implement show on July 19).



*Ken's hit and miss project*

Ken Brunskill shared his latest project, a casting from a Parsell & Weed hit and miss engine. He solicited advice on how to finish the casting and clean up machined areas. No consensus emerged but some suggested that epoxy filler would work better than regular Bondo. Ken also had an assembly he machined to emulate a casting. He is using Solidworks to create solid models and mentioned the veteran's price for significant savings on the annual subscription price.



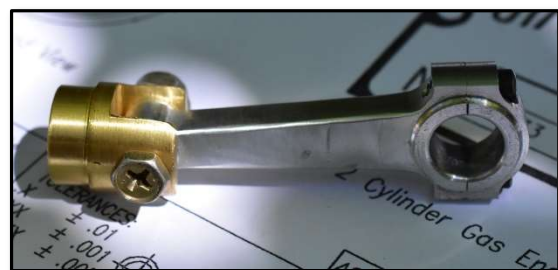
*Larry's GEM1*

Larry Zubrick continued to make progress with his GEM1 hit and miss, which is mostly done. He needs to finish the carburetor, exhaust, ignition, and display box.



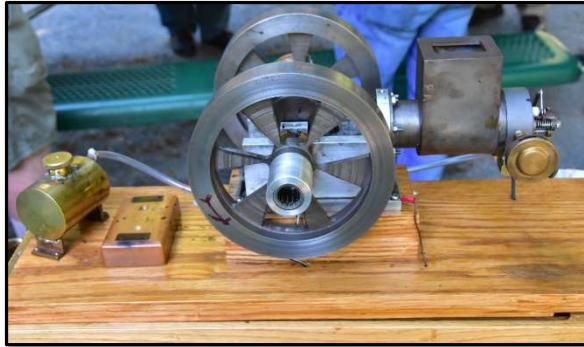
*Dwight's con rod fixture*

Dwight Giles brought his connecting rod machining fixture that makes cutting rod taper easier. He also showed a creative collet adapter that drives the small end of the rod while the cap end is held by the tailstock center of the lathe. This setup enables spinning the rod along its longitudinal axis, permitting turning a radius on the rod big end.



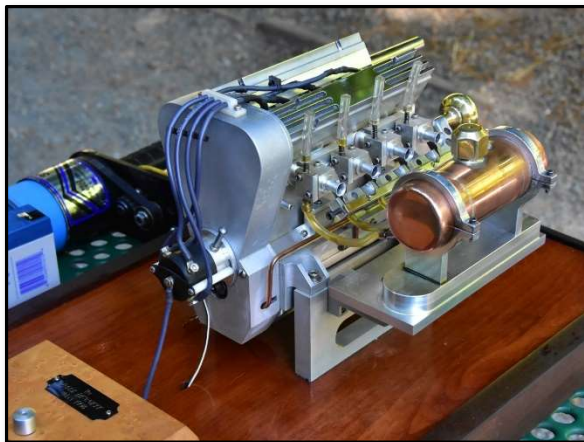
*Dwight's con rod collet adapter*





*George Spain's hit and miss*

George Spain brought in a hit and miss engine he had reworked and gotten to run. Engine design pedigree and machinists' contributions were not clear. Engine is reminiscent of a Duclos "Odds 'n Ends" but uses bar stock rather than angle iron in the base and has a hopper with a separate head rather than a Duclos integrated hopper/head.



*Bennett-built dual cam 4*

Bob Kradjian brought in an engine built by Paul Bennett. Engine is a dual cam 4 cylinder with a carburetor for each cylinder. Bob does not believe design was ever published. Bob shared some Bennett reminiscences when BAEM was meeting on Friday nights at Paul's shop in Hayward and treated club members to scary rides in tricked out Cobras.

As previously reported, Tom Armstrong passed away this spring and longtime friend and BAEM member Carl Wilson is helping dispose

of model engineering items. Mike Byrne delivered some sold items and brought up some casting kits. List of available items is below. Contact Carl if interested.

## 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.

## 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](mailto: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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BAEM member Carl Wilson is helping distribute the engine models and shop items of recently deceased BAEM member Tom Armstrong. Listed below are casting kits, engine models, and a steam plant. Some of these items have been sold. Carl has created a spiffy .pdf catalog, with photos, that he will be happy to send you via email.

#### Casting Kits

**Gade gas engine**, Martin Models, \$250  
**Stuart 10H**, 3/4" bore by 3/4" stroke horizontal steam engine, \$150  
**Stuart Beam Engine**, \$250  
**Stuart Score**, twin cylinder horizontal steam engine, \$175  
**Stuart 9**, 1 1/2" bore by 1 1/2" stroke horizontal steam engine \$300  
**Stuart hand feed boiler pump**, \$50  
**Stuart Governor for beam engine**, Victoria, or #9, \$75  
**Stuart Victoria**, 1" bore x 2" stroke, horizontal steam engine, \$250  
**Hemingway Wyvern**, 1 1/4" stroke by 2" bore horizontal gas engine, \$250  
**Hemingway Kiwi**, 15cc, overhead valve, vertical gas engine, \$175  
**Reeves Vulcan**, beam type steam engine, \$275

#### Other Stuff

**A George Thomas pillar tool** including the castings to make a small drill press. \$75  
**Mery Explosive Vapor Engine** – machining complete but not running - \$500  
**Fairbanks Model N** – disassembled, governor and igniter parts missing - \$350  
**Quorn Tool & Cutter Grinder** – complete but some surface rust - \$500  
**John Deere Model E** – complete and has been running - \$750  
**Stuart Double 10** steam engine \$250  
**Unknown dynamo** casting set. Make offer.  
**Stuart boiler feed hand pump** \$10 (brown in front of alum round)

**Senft low temperature differential Stirling engine** \$25

**GEARS 2010 double acting engine** \$50 (copper color)

**PM Research Wobbler** \$50 (Green)

**Short piece clamp** for cutoff bandsaw \$25 (Alum rectangular block)

**Set of Mitotoyu gage blocks**, both 0.1000" wear blocks missing \$50

#### 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](mailto: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](mailto:mgbyrne3@comcast.net)  
-Wes Wagnon at [weswag@ix.netcom.com](mailto:weswag@ix.netcom.com)

