

The Crank Calls



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NEXT MEETING
Saturday, January 16, 2021 at the
Golden Gate Live Steamers clubhouse in
Tilden Park, Orinda, CA
 Doors open at 9:00 am
 Meeting starts at 10:00 am
 Meeting will be outdoors, masks required
 Social distancing will be observed

Upcoming Events
 BAEM meetings are usually 3rd Saturday of the month except December. Upcoming meetings:

- ~~December 12, 2020 at GGLS: Holiday Potluck~~ Canceled
- January 16, 2021 at GGLS
- February 20, 2021 at GGLS

MEETING NOTES

November 21, 2020
Note taker: Wes Wagon

Bay Area Engine Modelers met at Golden Gate Live Steamers in Tilden Park, on Nov. 21, 2020. Meeting was held outside, observing mask/social distancing protocols. Approximately 15 members were in attendance. The weather was clear, dry, sunny but significantly chilly.

NEW MEMBERS/VISITORS

BAEM member Aaron Keller brought along two friends: Dean Cornell and David "Moose" MacDannald. Both expressed interest in learning more about machining.

TREASURER'S REPORT

The 2021 dues of \$25 will be due in January. Pay now so you'll be all paid up. 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".

The BAEM club is solvent. Recent contributions to the club treasury have been generated by sales of engine construction “kits” (and other items) by Dwight Giles. The club thanks Dwight for generating these contributions.

CLUB BADGES

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

MEETING VENUES

Upcoming meetings will be at GGLS, due to the ability to meet outdoors, reducing the risk of Covid 19 infection. Masks must be worn.

Watch Crank Calls, BAEM emails and BAEM web page for updates. The December potluck/meeting was canceled. See you next year!

SHOW PARTICIPATION

Nothing to report.

FIRST POPS

No first pops this meeting.

BITS AND PIECES

Dwight Giles has been busy putting together “Little Devil” engine construction kits. These are a single-cylinder hit-‘n-miss engine. Price is \$100 donation to club. These include castings that Dwight originally acquired from Ken Hurst. Drawings were by Bob Shores. One part that needs fabrication is the crankshaft. Builders are directed to the MEB article by Dwight regarding making model engine crankshafts. Multiple kits were purchased, but Dwight has a couple more still available.



“So, what does your engine ‘do?’” is a question commonly asked at our shows. Never mind the exquisite craftsmanship, clever engineering and intricate beauty of our marvelous creations. They want to know the purely practical applications.

Well, BAEM member Charlie Reiter has an answer: his steam engines operate apple processing equipment. Every year, he assists with processing the apples harvested in the family orchard, aided by engines he has constructed.

Charlie showed his steam engine. It features a “fly-ball” centrifugal governor and incorporates a 1906 cast iron pulley from a double-sash window. It runs on steam, or compressed air. Mechanical power is transmitted, via a wide flat belt, to an apple grinder.



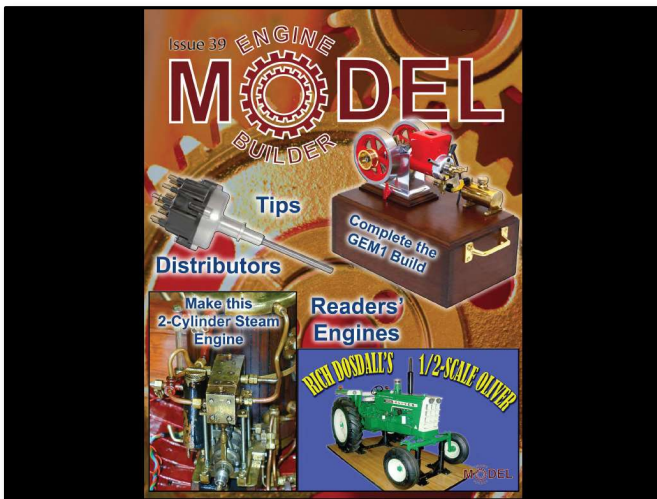
Charlie’s second machine is a steam driven, hydraulic pump actuator. This fits in a 12 ton H-frame heavy duty floor shop press from Harbor Freight, into which is incorporated the parts of an apple press. Harvested apples are loaded into the press cylinder and crushed by the hydraulically-driven plunger. This process yields fresh pressed, pure apple juice. Yum!





Charlie's apple processing equipment in action

Mike Rhemus announced that issue #39 of Model Engine Builder has been published. Those with paid subscriptions will receive download links via email.



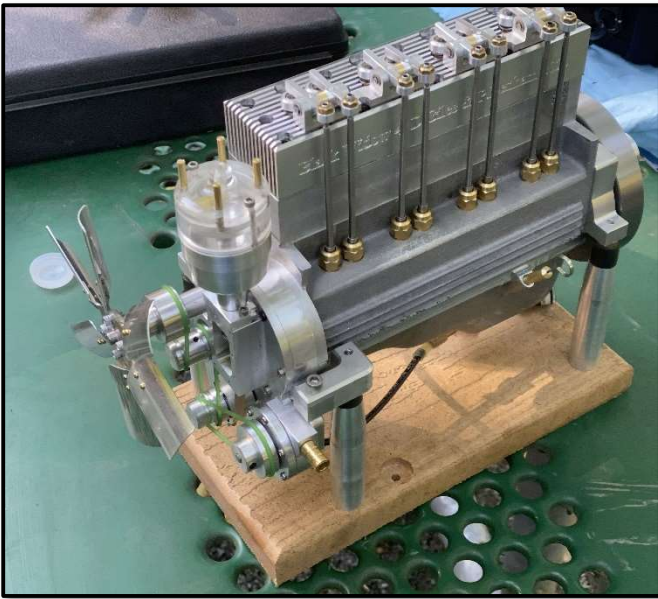
Mike Rhemus also brought samples of parts he made on his 3-D printer, a QIDI TECH S-Box Resin 3D Printer. This is a high-precision printer, capable of producing parts to a .001" tolerance. Mike believes these printers are particularly useful for producing complex carburetor and distributor parts. It is possible to 3-D print threads accurately. One can print parts that simply couldn't be made using traditional machining methods.



3-D printed parts

Mike discussed plans for the next issue(s) of MEB to focus on the build of a model Ford Model A engine. This is, of course, an inline four cylinder design. According to Mike, it has some interesting, innovative design elements, such as the use of split valve guides, that will require very precise machining, making this a challenging engine to produce in model form.

Finally, Paul Denham brought his almost-completed Black Widow 4, but we'll have to wait until the next meeting for a progress update.



Black Widow 4

FOR SALE

Dwight Giles has some stuff he is offering:

-**“Little Devil” Engine Kits**. Contains full set of plans, castings, a flywheel and assorted parts. Price is \$100 donation to club.

-**Castings & Drawings for Örkenrud 340 V8**. This is the same casting kit Wes is using for his build. Price is \$100 donation to club.

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

