Bay Area Engine Modelers Club

E Crank Calls

February 2019

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MEMBERSHIP \$25.00 US

Contact Paul Denham at pedenham@comcast.net

NEXT MEETING

February 16, 2019 at Golden Gate Live Steamers Tilden Park Berkeley, CA

Doors open at 9:00 AM Meeting starts at 10:00 AM

Upcoming Events

BAEM meetings 3rd Saturday of the month

- February 16, 2019 @GGLS, Tilden Park
- March 16, 2019 @GGLS, Tilden Park
- April 20, 2019 @ MoAH, Palo Alto

MEETING PLACE FOR February 16th

We will meet this month (February) at the Golden Gate Live Steamers meeting room in Tilden Regional Park, Berkeley, CA.

MEETING NOTES

January 19, 2019

Mike Byrne standing in for Bob Kradjian

BAEM meeting was held at the Museum of American History (MOAH) in Palo Alto.

Paul has exchanged email with Bob Kradjian and we understand Bob is slowly recovering and hopes to be able to attend the April meeting.

Look ahead schedule showing meeting locations thru 2019 has also been posted.

VISITORS: There were no visitors or new members at the January meeting.

FIRST POPS: None to report..

TREASURER'S REPORT:

The 2019 dues of \$25 are due. Dues can also be mailed to Paul at 1937 Merchant St, Crockett, CA 94525.

Paul mentioned that MOAH had not been "charging" for use of the meeting room but that the club had made a donation. It was suggested and agreed that we send the \$300 for 2019 (works out to \$50 per meeting)..

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

BITS AND PIECES



Dwight had a V-8 project well underway that he passed it on to Paul for completion. Paul brought it in and described some of his cleanup efforts.



Dwight's V8 "valley view".

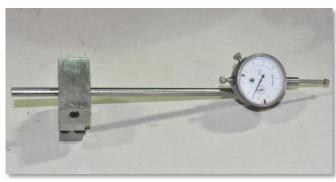




Carl Wilson showed a spin indexer he had reworked by reversing the spindle for better operability.

Ken Brunshill showed a set of tap/hole charts that he had made and had laminated. PDF of the charts set is available on the club web site (www.baemclub.com/Images/brunshill_drill_guide.pdf). Copy is attached.

Mike Rehmus passed out a flyer regarding a Napa machine shop that is liquidating.



Jerry Franklin showed a shop made clamp fixture for holding a dial indicator for measuring lathe carriage movement.

TECH TOPIC

Steve Hazelton and Mike Rehmus suggested a tech topic on ways to transfer large computer files such as videos. Mike Byrne provided a short briefing on using operating system utilities, web browsers, file transfer protocol, and cloud servers to overcome 25 megabyte limitations of some email servers.

	Actual size (.XX mm)			Sizes are standard commercially available drill sizes. (Predominantly Inch sizes.)											
	Thomas	Max O.D.		Tap Drill 50%			Tap Drill 75%			Clearance Hole Size			Close Fit Hole size		
	Thread	Inch	mm	Inch	SAE Drill	Metric Drill	Inch	SAE Drill	Metric Drill	Inch	SAE Drill	Metric Drill	Inch	SAE Drill	Metric Drill
MODEL	3/16-40 MPT	0.1875	4.76	Not	Recommer	nded	0.1540	#23	.390 mm	0.2040	#6	4.50 mm	0.1850	#13	4.70 mm
USS NC SAE NF	10-24 10-32	0.1900	4.83 mm	0.1610 0.1700	#20 #18	4.10 mm 4.30 mm	0.1610 0.1590	#20 #21	4.10 mm	0.2040	#6	5.20 mm	0.1935	#10	5.00 mm
METRIC	M5 X 1.0 M5 X .9 M5 X .8	0.1969	5.00 mm	0.1719 0.1730 0.1770	11/64" #17 #16	4.40 mm 4.50 mm	0.1590 0.1610 0.1660	#21 #20 #19	4.10 mm 4.20 mm	0.1850	#13	4.70 mm	0.1770	#16	4.50 mm
USS NC SAE NF	12-24 12-28	0.2160	5.49 mm	0.1890 0.1935	#12 #10	4.80 mm 5.00 mm	0.1770 0.1820	#16 #14	4.50 mm 4.70 mm	0.2280	#1	5.80 mm	0.2210	#2	5.60 mm
MARK	M6 X 1.0 M6 X .75	0.2362	6.00 mm	0.2090 0.2187	#4 7/32"	5.30 mm 5.50 mm	0.1990 0.2090	#8 #4	5.10 mm 5.30 mm	0.2570	F	6.50 mm	0.2420	С	6.20 mm
USS NC SAE NF	1/4-20 1/4-24	0.2500	6.35 mm	0.2187 0.2280	7/32" #1	5.50 mm 5.80 mm	0.2010 0.2130	#7 #3	5.30 mm 5.40 mm	0.2656	17/64"	6.80 mm	0.2570	F	6.40 mm
MODEL	1/4-40 MPT	0.2500	6.35 mm	Not Recommended		0.2055	#5	5.20 mm	0.2656	17/64"	6.80 mm	0.2570	F	6.40 mm	
MITTAL	M7 X 1.0 M7 X .75	0.2756	7.00 mm	0.2500 0.2570	E - 1/4" F	6.40 mm 6.50 mm	0.2380 0.2460	B D	6.00 mm 6.30 mm	0.3020	L	7.70 mm	0.2810	К	7.20 mm
USS NC SAE NF	5/16-18 5/16-24	0.3125	7.90 mm	0.2770 0.2812	J 9/32"	7.00 mm 7.20 mm	0.2570 0.2720	F I	6.50 mm 6.90 mm	0.3320	Q	8.50 mm	0.3230	Р	8.20 mm
MODEL	5/16-27 MPT	0.3125	7.94 mm	Not Recommended			0.2570	F	6.40 mm	0.3320	Q	8.50 mm	0.3230	P	8.20 mm
METRIC	M8 X 1.25 M8 X 1.0	0.3150	8.00 mm	0.2770 0.2900	J L	7.00 mm 7.40 mm	0.2660 0.2770	J H	6.80 mm 7.00 mm	0.3281	21/64"	8.20 mm	0.3230	P	8.20 mm
'Alc	M9 X 1.25 M9 X 1.0	0.3543	9.00 mm	0.3230 0.3281	p 21/64"	8.20 mm 8.10 mm	0.3020 0.3160	N 0	8.20 mm 8.00 mm	0.3750	3/8"	9.50 mm	0.3680	U	9.40 mm
USS NC SAE NF	3/8-16 3/8-24	0.3750	9.53 mm	0.3320 0.3480	Q S	8.50 mm 8.80 mm	0.3125 0.3320	5/16" Q	8.00 mm 8.50 mm	0.3970	х	10.10 mm	0.3770	V	9.60 mm
METRIC	M10 X 1.5 M10 X 1.25 M10 X 1.0	0.3937	10.00 mm	0.3580 0.3594 0.3680	T 23/64" U	9.10 mm 9.40 mm	0.3390 0.3437 0.3580	R 11/32" T	8.60 mm 8.70 mm 9.10 mm	0.4219	27/64"	10.70 mm	0.4130	z	10.50 mm
	M11 X 1.5	0.4331	11	0.3970	X	10.00 mm	0.3750	3/8"	9.50 mm	0.4687	15/32"	11.90 mm	0.4531	29/64"	11.60 mm
USS NC SAE NF	7/16-14 7/16-20	0.4375	11.11 mm	0.3906 0.4062	25/64" 13/32"	9.90 mm 10.30 mm	0.3680 0.3906	U 25/64"	9.40 mm 9.90 mm	0.4687	15/32"	11.90 mm	0.4531	29/64"	11.40 mm
MERRIC	M12 X 1.75 M12 X 1.5 M12 X 1.25	.4724 mm	12.00 mm	0.4219 0.4375	27/64" 7/16"	10.70 mm 10.80 mm	0.4062 0.4130 0.4219	13/32" Z 27/64"	10.30 mm 10.50 mm 10.70 mm	0.5000	1/2"	12.70 mm	0.4375	7/16"	11.10 mm
USS NC SAE NF	1/2-13 1/2-20	0.5000	12.70 mm	0.4531 0.4687	29/64" 15/32"	11.50 mm 11.90 mm	0.4219 0.4531	27/64" 29/64"	10.70 mm 11.50 mm	0.5312	17/32"	13.50 mm	0.5156	33/64"	13.10 mm

Selections made from: Little Machine Shop 2019 C.W. Mardel 1960 Greenfield Drill 2019 21st Machinerys Handbook Ken's experience

Clerance Drill sizes: Clearance avg +.010-.015 Close Fit avg +.005-.010

Tap Drill sizes as recommended