



SCHSM

Southern California Home Shop Machinists

September 6, 2014

OFFICERS

President	Frank Kozlowski
Vice President	Charles Angelis
Secretary	Ken Rector
Treasurer	Jim Endsley

COMING EVENTS

October Meeting
October 4th
El Camino College

Little Machine Shop
Open House
October 25th
396 W. Washington Blvd.
#500, Pasadena,

November Meeting
November 1st
El Camino College

The September monthly meeting of the Southern California Home Shop Machinists was held on Saturday, September 6th, 2014 at 2:00 P.M. in the basement classroom (C101) of the Communications Building at El Camino Community College. There were 35 members present and one visitor.

The meeting started with discussion of club business. Jim Endsley announced he would put together an order for club apparel if members were interested. He collected data about types of shirts and caps people would like to have and will return with price and availability proposal at the next meeting. People wanted all kinds of shirts, polo, long sleeve and short sleeve denim, caps. however, no one was interested in boxers with the club monogram. Jim is soliciting input via the Yahoo Group. Jim also auctioned a stylish SCHSM cap, in blue denim with a faux deerskin bill, for \$20, to Charles Angelis.

Our faculty sponsor, Ed Hoffman, spoke about the eminent completion of the Shop Renewal project. He said the project is due to be completed by the end of the current semester and the equipment will be reinstalled in the new shop space during the semester break, starting in mid December. With this

schedule, Ed believes we may be having our February meeting in a new classroom in the shop building. He cautioned that the new classrooms are to accommodate 35 students with six square feet per person. This will be a tight squeeze for our group, but don't let that discourage you from coming to meetings.

Lewis Sullivan described the interesting material to be found in the vintage Popular Mechanics encyclopedia donated to the club last month. The books are available for loan to members.



Paul Chretien and Ken Rector represented the SCHSM at the annual Western Engine Model Exposition held in conjunction with the Good Guys West Coast National Car Show, at the Alameda County Fairgrounds in Pleasanton California on August 22 thru 24. The WEME show is produced by the Bay Area Engine Modelers (BAEM) and occupies an air-conditioned building in the center of the fairgrounds. There are about two hundred model engines on display. BAEM members ran a variety of engines including hit and miss, four, six and eight cylinder, and an especially powerful supercharged V8 that gathered a crowd each time it was fired up. A featured display was about sixty beautiful and unique engines from Paul Knapp's engine collection. Paul ran a large Rotary engine in the outside courtyard several times during the week end.

The BAEM guys gave Paul and Ken an appreciative

welcome and provided two picnic tables for our display with wall space to hang our club banner. Our display included the club project Farm Boy engine and two of Paul's hit and miss engines. We also showed some other steam and two stroke engines. Eldon Barclay's anti gravity machine that rolled uphill was of particular interest to young boys. A lot of visitors read our banner and were impressed that we came all the way up there to display at the show. We distributed handouts describing our club and business cards.

Our club has been invited to exhibit our stuff at the Little Machine Shop Open House again this year. The event will be on October 25th. LMS will provide us plenty of table space, air and electricity, as they have in the past. This is a wonderful opportunity for us to present ourselves to people interested in metal working here in Southern California.

Following the club business discussions, Lewis Sullivan gave a presentation about how he mounted an indicator on the tailstock of his lathe. He adapted a section of 3x6 square tube strapped and clamped onto the tailstock so he did not have to drill any mounting holes in the TS. No one wants to drill and tap holes in their equipment.

After the mount was completed, Lewis mounted a Starret 2 inch travel dial indicator which he bought at last months auction. The indicator as received had a cracked and dirty crystal and Lewis described how he cut a replacement lens of polycarbonate from an old

face shield, on the lathe, and how he replaced the cracked one on the tool. Lewis researched this procedure using an out of print book titled "Repair of Mechanical Dial Indicators and Calipers" by Michael T. Yamamoto. The book told how to bevel the edges of the new lens, making it slightly oversize so it will bulge up into a concave surface when installed in the indicator. It also described how to remove the bezel and reinstall it with the new lens. Lewis gave a very clear and interesting presentation that generated lots of questions and discussion.

Norm Wells showed a couple of counterbores. First a conventional counterbore which one might buy from McMaster Carr for big bucks. Then an aircraft type counterbore of the same cutter size but with smaller stem and much less expensive.

Lorry Widger showed a Holdridge Radii-Cutter used to machine spherical surfaces on the manual lathe. The cutter kit comes with several cutter options and tools and is manufactured here in Gardena.

Larry Lee showed a spider he made for his 3 jaw chuck he used when he needed to thin a washer. Larry's tool was of excellent fit and finish.

Frank Kozlowski showed a tachometer he obtained on Ebay for about \$10. This tool would be useful to tell the speed of a mill or lathe.

Don Huseman showed a strange looking Stanley tool with a couple of adjustable arms and wing nuts, and asked if anyone could identify it. Avid metal workers were stumped and imagined all sorts of strange things. Some with more generalized knowledge, especially wood workers, instantly recognized it as a Stanley #49 depth gauge to be mounted on an auger bit. Look that up in your Funk and Wagnals.

Don also asked for suggestions on how to extend a small twist drill. Everyone had an opinion on this.

In keeping with our on-going discussions about drill sharpening, your editor showed a Rockwell Drill sharpening attachment for a conventional bench grinder. This tool has a



myriad of adjustments and can accurately sharpen twist drills from 1/8th to 5/8 diameter. It demonstrates the offcenter conical rotation necessary to put the proper clearance on the drill point lips.

And finally, Lorry Widger instigated a discussion on how best to press a gear onto a cast hub on the engine he is building. Every one had an opinion on this and all spoke at once and interrupted each other in their haste to expound their favorite theory. The outcome seemed to be that Lorry should buy a toaster oven.

The meeting ended at 4:30.

The club welcomes presentations by members or guest speakers on any subject related to our activities. If you have some knowledge or experience you feel may be of interest to our members, or if you know someone that may have something interesting to relate, please consider making a presentation at a meeting. Presentations may be a little longer and more detailed than a show and tell and may be accompanied by slides or video, or physical displays. Probably every member has some experience they can share. Please contact President Frank Kozlowski to make arrangements to give a presentation.

The SCHSM meets in Communications Building (COMM) basement classroom COM101, of El Camino College, 16007 Crenshaw Blvd. Torrance California, on the first Saturday of every month. The building is near Parking Lot C. Enter the campus on Manhattan Beach Blvd.

Find us on the web at www.schsm.org.

If you would like to contribute an article, or suggest an improvement to this newsletter, please contact the editor, Ken Rector via the SCHSM Yahoo Group.



The body font of this newsletter is Century Gothic Regular, printed at 80 percent opacity, which is most economical in terms of toner usage. The headline font is LeroyLetteringLight Regular which simulates Leroy lettering from the 60's. The headline color is Vandyke Brown which simulates the color of old Brownline prints, but not the odor. The logo is an image of an unidentified Starrett caliper.