

The Newsletter of the Southern California Home Shop Machinists
May 9, 2015

OFFICERS

President: Michael Vulpillat Vice President: Paul Chretien,
Secretary: Ken Rector, Treasurer: Jim Endsley

COMING EVENTS

June Meeting June 2, 2015 2:00 P.M. El Camino College

Picnic June 13 Alondra Park □

Antique Gas and Steam Engine Museum Expo June 20, 2015 Vista

July Meeting July 11, 2015 2:00 P.M. El Camino College

The May meeting of the Southern California Home Shop Machinists convened at 2:00 P.M. on May 2, 2015 in a first floor classroom, #115, AJ Classroom, of the Industry and Technology building at El Camino College in Torrance California. There were 37 people present including two new members, John Morrill and Norm Furutani. These men are friends who are interested in model airplanes and model airplane engines. Also present was George Sherrick who has been a member but has not participated in some time. John Morrill has a metal working shop and has built model airplane engines commercially. George Sherrick works for Lockheed Martin in a 3D printing lab and has a Rhoads Shaper and other equipment.

To begin the meeting, member Doug Walker presented a gavel to President Michael Vulpillat.

President Michael Vulpillat reminded us of plans for the June Picnic Event. Cost for the picnic lunch will be \$12 per person. Lunch will be sandwiches and the usual delicacies. Members will bring their own drinks. There will be an engine performance contest and about a half dozen members expressed interest in participating. We will have the club compressor to run engines and Jim Long agreed to bring his generator to power the compressor.

Jim Endsley is organizing our display for the Antique Gas and Steam Engine Exhibition in Vista. The latest word from Jim is that we will participate in the exhibition on Saturday, June 20th. Jim reported that eight members have said they would participate. Exhibitors should arrive at the gate at 8:00 A.M. and are admitted free to the exhibition and should have time to see everything as well as participate in manning our display. Jim said we will have an entire building for our display. Of course, Jim encouraged everyone to participate in this event. It's not a strict requirement to display something and members can come just to man the booth.

Norm Wells gave a presentation describing his indicators and their mounting hardware and how he uses them. Norm passed around examples of half a indicators. The first was a kind of old fashioned lever action pointer type indicator made by Draper in



England. This tool is in remarkably good shape for being a vintage tool. It reads the same direction on the dial no matter which way the probe is moved. Next Norm showed a Federal dial test indicator and talked about how to setup the tool for maximum accuracy. Norm showed three or four other types of indicators and mounts, including a shop made "Zero It" clone.

Following Norms talk Larry McDavid asked if anyone could tell how to use the conical pointed end of the rotatable edge finder. The answer from someone was as follows. Install the edge finder in the mill collet or chuck with the conical pointed end touching in a center

punched depression, or a small hole, which we are trying to locate in the mill. Adjust the table in the X and Y directions until the conical section is concentric with the indicator shaft. You can test for concentricity by feeling with your fingers. You can get within .0002" by this method. The tool should not be rotating, that is, the mill must be stopped. This method of using the conical pointed end of the edge finder was very interesting to everyone.

During the break Ed Hoffman, our Faculty Advisor took the group to see the new machine shop facility.

For Show and Tell, Lorry Widger showed his model of the Model Engineering Beam Engine that he made from castings and plans from Model Engineer Magazine. Lorry spoke about the background of the engine and how to obtain the castings. He described how he machined the parts and told of problems he encountered. He worked on the project for two years and communicated with other people who had also built the engine. The engine is beautifully made with many fine details and flawless paint and it runs very smoothly at a low RPM.

John Miller showed a tool holder with insert he bought from Reliable Tool and cannot get to cut. The tool has negative rake. The consensus was that the tool is made to take heavy cuts and he may not be using it in that way.

Larry McDavid showed a microscope ring light with 56 leds that he bought on Ebay for \$20. He also talked about his current favorite shopping place, Daiso Stores. Everything in the store is from Japan and is priced at \$1.50. Larry likes their little plastic trays, boxes and containers.



Graham Hollis brought in some examples of things he made with his new 3D printer. He made a toy tractor, a small ball roll toy and a strange concentric gear mechanism. It took 68 hours to print the tractor parts using 600 meters of filament. Graham explained the various types of filament available. This includes a wax material that can be used for making wax patterns. He wants to use it for investment casting.

Our visitor John Morrill brought in a small lathe he is building from bar stock. John has used the design and instructions in a book, "How to Build a Small Lathe" by L. C. Mason. He described building the bed, ways and head stock. He told of his disgust with low carbon 1018 steel.

This month's newsletter is being written in a hotel in Oshkosh Wisconsin so it may look a little different than usual.

The club welcomes presentations by members or guest speakers on any subject related to metal working 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 and this is the purpose of the SCHSM. Please contact President Michael Vulpillat to make arrangements to give a presentation.

The SCHSM meets in the #115 AJ Classroom of the Industry and Technology building of El Camino College, 16007 Crenshaw Blvd. Torrance California, at 2:00P.M., on the first Saturday of every month. The building is near Parking Lot B. Enter the campus on Manhattan Beach Blvd.

If you would like to contribute an article, to this newsletter, please contact the editor, Ken Rector, via the SCHSM Yahoo Group, or at kdrhoo@yahoo.com.

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