



SCHSM

Southern California Home Shop Machinists

December 6, 2014

OFFICERS

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

The December meeting of the Southern California Home Shop Machinists convened as usual at El Camino College on December 6th, 2014. The meeting was called to order by President Frank Kozlowski at 2:00 PM.

The first item of business was to determine the meeting date for next January. The members present voted unanimously to meet on January 3rd, the usual first Saturday of the month.

COMING EVENTS

January Meeting
January 3
El Camino College

Picnic
July 13
Alondra Park

The next new business was a presentation by our Faculty Sponsor, Ed Hoffman, about the near future move back to the newly renovated Metal Shop building. The plan is to move equipment into the building during the last part of December and to complete the move and have things set up during January. Then we will have our first meeting there on the first Saturday of February, 2015. According to this schedule, we will meet in our current Communications Building classroom (COM101) in January. More up to date news will be presented at the January meeting. Ed also explained about campus security issues and the reasons why classrooms and bathrooms are sometimes locked when we need them.

There was a short discussion about the June Picnic date. Members voted to have the picnic on June 13th. President Frank Kozlowsky will reserve the usual picnic area.

Your editor presented a proposal for a tour of the Zephyr Tool manufacturing facility in Inglewood. Zephyr Tool designs and manufactures specialized tools, screwdriver bits and fasteners for the aerospace and industrial tool industries. The company occupies a block of buildings at Florence and Hindy avenues. The shops include CNC equipment, automatic screw machine and manual machine operations. The tour would be on a weekday and members favored a date in February. About twenty members indicated they would participate. We will make arrangements for the date and time with the company and present them at the January and February meetings.

Jim Endsley reported that the apparel sales have been completed and the stuff distributed.

There being no other new business, the remainder of the meeting was occupied with show and tell topics.



Paul Chretien showed a very interesting engine he is building. Paul visited the Anson Engine Museum in Poynton, Cheshire, United Kingdom, a few miles east of Liverpool, on Anson Road near The Boars Head Pub. Information about the museum can be found on the web at www.enginemuseum.org. They have a collection of historic engines and Paul found one in particular he thought would make a good scale model. It is an Otto-Duetz inverted single cylinder internal combustion engine built in 1895. The engine has a unique intake valve mechanism that acts as a governor. A casting set and plans are available and Paul bought just the plans aiming to fabricate the parts that would have been castings. The plans are from Austria and have German text and metric dimensions. Paul had little problem with this except in finding fasteners. He has contributed the images below to illustrate his progress while building the engine.

Paul spoke about his considerations when researching material to choose a project like this. These include complexity of the machining and the mechanisms, the availability of drawings, directions, and potential stumbling blocks. Of course, he stressed, it is important to pick a project one can finish.

Paul has this to say about working on his engine. "I chose to 'carve' out all of the parts from bar stock rather than starting with a casting set. I figured that I could saw, mill, and turn a block of material into the rough stage of a casting. I might add that one could also weld, bolt, and glue parts to simulate a casting. All one needs is the dimensions and configuration of the final part and some imagination. This "bar stock" approach generated some discussion in the meeting on methods available to the home shop machinist. Marv F mentioned CAD-CAM and Don H described a spoke hub build up. Bob Heil mentioned that a fly wheel could be a solid disk without spokes, a redesign if you will. There are many ways to get metal to a desired shape. Examples of the variety of methods available can be found in build articles, plan sets, and information discussed in group settings (clubs), in publications (HSM) or on the Internet (Model Engine Maker)."



Don Huseman is making a pond scum sucker. He asked for advice on how to mount a 14" PVC tube in his mill to bore a large hole in it. Lewis Sullivan suggested a method to align the tube with the T-Slots which Don found very useful.

Lewis Sullivan showed a carbide scraper made by Red Devil that he uses for scraping everything. Lewis said this scraper beats all mild steel scrapers in the Big Box store. Lewis made Norms Small Drill Sharpening Jig and brought in several pieces of aluminum angle and set screws to give to anyone who also wants to build this very useful tool. He showed how he uses it with a diamond hone to sharpen carbide bits. He bought drill bit chucks from Kitts Tools to use in the sharpener.



Charles Angelis told about a plumbing repair in his 10,000 gal water tank system. The secret to his



success was a PVC fitting reamer that allows one to remove a broken section of pipe from a female fitting in order to replace it. He found this tool at Reed Manufacturing.

Eldon Barclay traveled to Kingman, Arizona to visit Bernie Wassinger, a long time member of SCHSM. Eldon reports that Bernie has started a machinist club in Kingman. They had two members at the first meeting, four members at the second and eight at the third. Eldon brought in a small compressor to give away.

Marv Frankel told about replacing a three foot florescent light with a strip of LED strip lighting that runs on 12 volts.

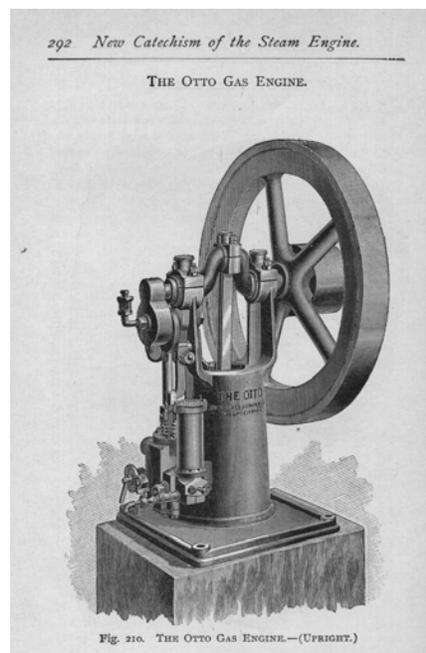
The meeting finished at 4:30 after a discussion about how great LED lighting is.

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 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, at 2:00P.M., on the first Saturday of every month. The building is near Parking Lot C. 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.



New Catechism of the Steam Engine, Hawkins, 1901