



# SCHSM

Southern California Home Shop Machinists

July 5, 2014

## OFFICERS

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

## COMING EVENTS

August Meeting  
August 2nd  
El Camino College  
Auction, Sell your stuff  
  
September Meeting  
September 6th  
El Camino College

The July meeting of the SCHSM convened at 2:00 P.M. on July 5th, 2014 in the basement classroom of El Camino Community College. There were 25 members present with no new visitors attending.



Mike Jacob reported that the June picnic event was a great success. He said the food was delicious and plentiful. Everyone agreed that the meal was great.

There were four awards given in the Engine Performance Contest. The First Place winner was Daniel Schettini who entered a beautiful little vertical wobbler having a .5" bore and .75" stroke which turned an amazing average of 2311 RPM over two runs. Runners up were Daniel's dad Frank Schettini in 2nd place with 1543 RPM, Eldon Barclay, third place with 734 RPM and John Miller, 4th place. The contest was a lot of fun and everyone agreed we should hold it again next year. Mike Jacob did an outstanding job building the test equipment and providing the winners with framed photos of themselves posed with President Frank Kozlowski.

The annual club auction will be held during the August monthly meeting on August 2nd. Members are urged to bring their disposable tools, parts, materials and related stuff for sale at auction. Members are also urged to save their allowance in hopes of picking up a treasure at a ridiculously low price. Be prepared to bid on some very interesting items.

Jim Endsley reported on our participation in the Antique Gas and Steam Engine Museum spring event in Vista. Seven members displayed their shop projects at our booth on June 28th. They had a great time talking with the audience and explaining their displayed work. Jim put in a lot of effort to make the arrangements with the museum, set up the tables, provide the air and power and setup the club banner to identify us.

In response to a discussion at a previous meeting, Norm Wells described how to sharpen taps and dies. He suggested using a small diameter cylindrical mounted stone in a small hand grinder to grind in the gullet of the tap to provide the proper clearance angle. One may also use a small diameter diamond cutter. He cautioned to position the grinder so that the rotation is counter clockwise, upwards, across the face of the cutting edge of the tap towards it's outer diameter. If the rotation is downwards into the gullet the stone has a tendency to crawl upwards across the cutting edge, quickly dulling the cutting edge. The accompanying images show the method I tried on some maybe 90 year old taps from my grandfathers toolbox. Notice the shiny tooth points; the result of grinding from the wrong direction was just as Norm warned us.



To sharpen dies, Norm recommends using a drill press with a small diameter stone that will fit through the relief hole in the die. Hold the die in the drill press vice.

Norm also showed us a shop made jig for sharpening small drills by hand. He made this jig from a piece of aluminum angle and a Dremel tool chuck. Once the lips of the drill are aligned, both cutting edges may be stoned by simply reversing the jig. Anyone using small drills will appreciate this easily made tool.

Lewis Sullivan presented a variety of knots and described their use related to rigging in construction and machine moving. Lewis went to the trouble to build a fixture to use to display the various knots and ropes he told us about. He also passed around a pamphlet from REI and a book he recommended to learn about knots. The book is titled, 'Mountaineering, The Freedom Of The Hills'. In particular, Lewis described the Prusik knot which securely fastens a loop of rope to another yet allows the loop to be moved along



the other. The Prusik knot may be used aboard ships to climb masts. He also showed the Truckers Hitch, used to tie down loads and tarps on 18 wheelers. Lewis also showed some chain rigging systems and how they may be used for moving heavy equipment. Lewis' talk generated a lot of discussion and interesting questions and was quite informative.

Don Huseman hopes to organize an excursion to the American Precision Museum in Windsor, Vermont. The museum is a must see place for machinists in America. Their exhibits depict the rise of precision manufacturing technology in America from before the Civil War. The museum is housed in the Robbins and Lawrence Armory, a 6 story brick building in Windsor. The Museum's machine tool collection

is one of the most extensive collections in the world. Included are single and multiple spindle lathes, shapers, planers, milling machines, single and multi spindle drills and grinding machines. The highlight of the machine tool collection is the machines developed in this building by Robbins and Lawrence to mass produce firearms with interchangeable parts.

Don suggests we take advantage of group rates to travel to Windsor in October to visit the museum at the time of the 15th Annual Model Engineering Show which will be held in the Windsor Recreational Center and the museum on Saturday, October 25th. Don anticipated the cost for the trip might be about \$650 for four days, including airline fare on Southwest Airlines.

In response to a previous discussion about Stereo Lithography (SLA) on the Yahoo Group, Larry McDavid brought in a piece of bronze jewelry cast from a lost wax mold designed using CAD and produced by the Stereo Lithography process. The piece is quite intricate with several layers in a spherical format.

Eldon Barclay told about his quest for a replacement 18V battery charger. He also showed a couple of silver brazing jobs he did recently. One was a security screw driver bit attached to a standard screwdriver handle, and the other was a socket driver for a Norton Door Closer adjustment. Eldon described how he aligned the parts during the brazing operation.



There was some discussion about participating in the Long Beach Model T Club Swap Meet but no resolution was made. The swap meet is July 12 and 13th which is only a week following our meeting. Perhaps next year we can plan a little further ahead.

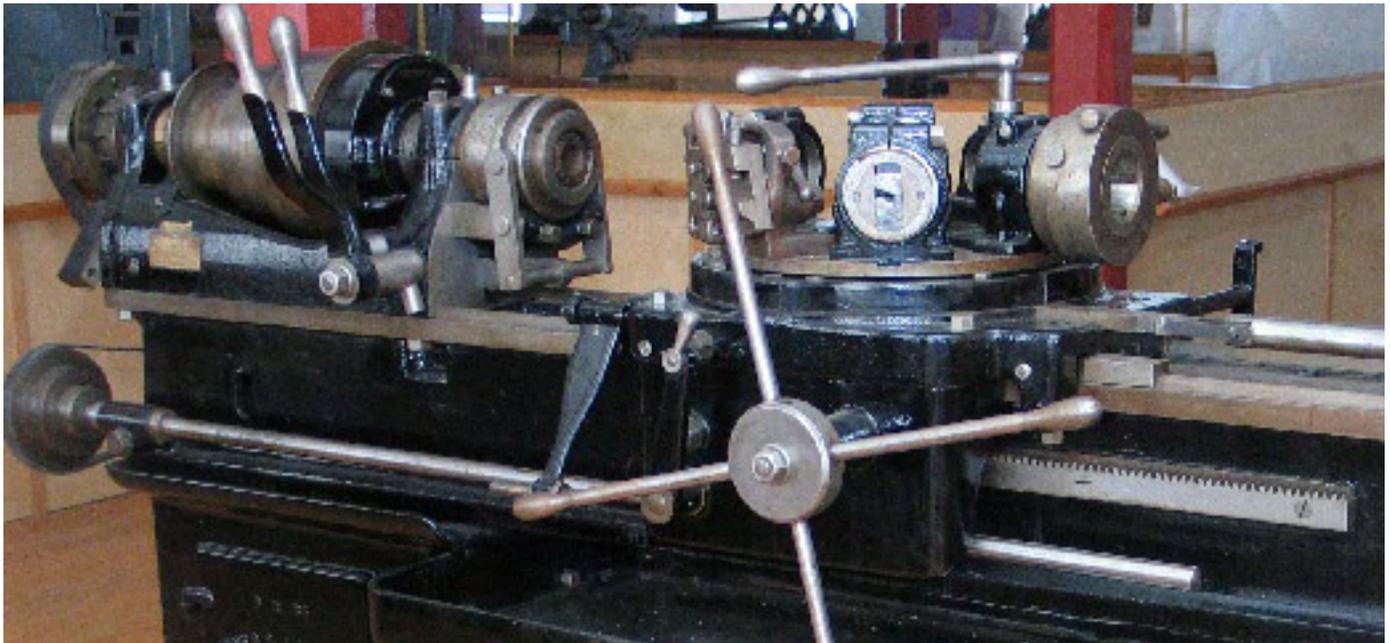
The meeting ended at 4:30pm.

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](http://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.