



SCHSM

Southern California Home Shop Machinists

October 4, 2014

OFFICERS

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

COMING EVENTS

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

November Meeting
November 1st
El Camino College

The October meeting of the Southern California Home Shop Machinists convened as usual at El Camino College on October 4th. The meeting was called to order by President Frank Kozlowski at 2:00 PM. There were 28 members present and no new visitors.

To start the meeting, Norm Wells donated a shop apron which was given to Lewis Sullivan whose hand went up first. Norm also brought in a large bag of large rubber bands which were distributed to the members present. Paul Chretien brought in some center fold pictures from Model Engine Builder magazine to hand out to anyone who wanted one.

A plan for our display at the Little Machine Shop Open House event was discussed. Twelve people plan to attend the event but only six of those will have objects to display. Members were encouraged to bring stuff to display. A display doesn't have to be exotic mechanical constructions but can be tools or other metal work to show what our club members do in their home shops. Eldon Barkley will not be able to attend but he will give our club banner and other display material to Frank Kozlowski so we will be well identified. There was a

lengthy discussion about table coverings terminating when Frank Schettini volunteered to bring cloth drop cloths to cover the tables. There was further discussion concerning our air distribution system and what type of connectors we use. Frank Schettini further volunteered to write a standard for this.

Consequent to the meeting discussions, Paul Chretien sent a note to members via our Yahoo Group stating how we benefit by participating in the LMS Open House event. As

LMS makes an effort to provide this opportunity to us, we should make a dedicated effort to display a significant exhibit.

Jim Endsley gave information about prices, sizes and styles available for club badged apparel. Besides shirts, polo shirts and caps he can obtain aprons with single or double width swing pockets. Members can contact Jim for more information and to order apparel.



Following the business discussions members participated in the Show and Tell session. Don Huseman asked if anyone had experience resharping band saw blades. Someone suggested Paramount Saw as a possible place. Others suggested buying bulk blade material and welding or brazing custom blades.

Millar Farewell asked about experiences bending tubing for constructing a welding cart. Frank Schettini responded with some comments about electrical conduit benders and minimum radius and tube sizes.

Lewis Sullivan asked for advice on a lapping machine to sharpen a carbide scrapper tool.

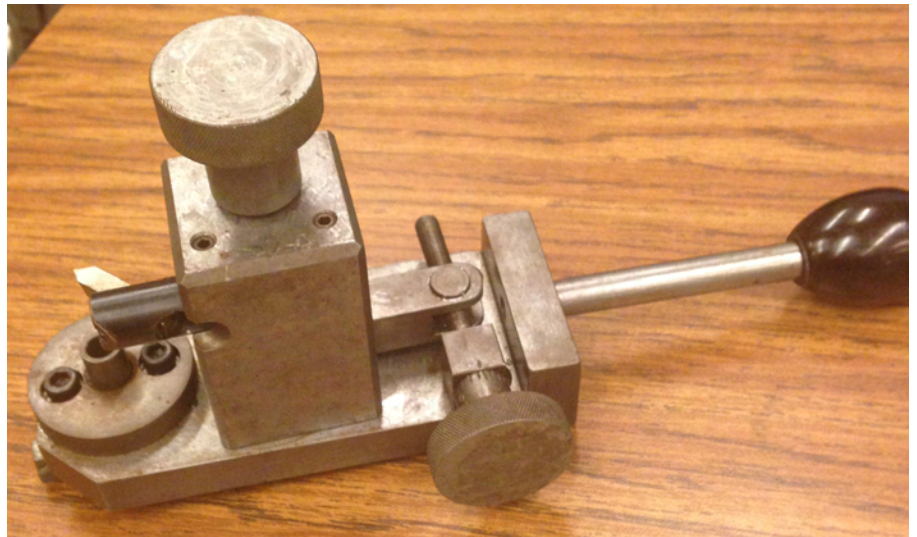
Jim Long suggested the Accu-Finish diamond sharpening system.

Graham Hollis has begun construction of a scale model Bristol Hercules 14 cylinder sleeve valve radial engine. Graham is working from development plans from Lee Hodgson of Ageless Engines. He showed a video animation of the sleeve valve gear mechanism and another of his crankcase machining operations. As the animation showed, the piston reciprocates inside a sleeve which also reciprocates and rotates inside the cylinder to uncover each intake and exhaust port. A lot of monkey motion goes on to cause all this. There will be 29 gears in the gear train which drives the sleeve valves. Although complicated, the engines were used successfully in many high powered aircraft during WWII. Their 14 cylinders are arranged in two rows of seven cylinders. Graham's model engine will be about 18 inches in diameter and weigh about 50 pounds. Graham brought in the machined main crankcase halves and described some of the other front and rear case covers to be made next. This will be a very ambitious project which Graham hopes to finish in about two years.



Last months discussion about pressing parts together prompted Eldon Barkley to show a vise repair he made to a broken vise jaw and to offer some advice about misusing a vise. His example was a fairly large vise jaw that broke under undue force administered by a neighbor kid. Eldon told how he welded the cast iron, using plenty of pre-heat and a rod that is "harder than a mother-in-laws tongue. He suggested that a vise is not a press. He also described cutting square threads on a replacement vise screw. Eldon was well prepared with a wooden mockup teaching aid to demonstrate how to accomodate thread helix angle when grinding the threading tool and the threaded internal vise part that accepts the screw.

Norm Wells brought in an example of using a cheap punch with a hole bored in the end to accept a pin, as a pin insertion tool. This needs to be a really cheap punch. Norm also showed how a box clamp can be made in two halves and silver brazed together. He also showed a simple, but very nice shop made ball turner and described the gauge pins used with it to establish the ball center and radius.



Mike Jacob showed a couple of different styles of aircraft countersink fixtures that are very useful for gauging holes and countersinks.

Ken Rector showed a Du More Duplex hand grinder he found for a buck at the Old Tool Swap Meet at Anderson Plywood in Culver City. It was advertised as 1/4hp, 17000 RPM, and priced at \$19.95 in 1952 Popular Mechanics. It needed a cord and new brush covers but was easily made serviceable.

John Arenson, a member of our club, is owner of Anderson Plywood on Sepulveda Blvd. where the Old Tool Swap Meet is held on the third Saturday of February, May, August and November. The swap meet offers all kinds of tools, new and used and is a great place to find bargains and to meet other club members. There are other venues with about the same collection of vendors around Southern California on other dates. To find out more contact laura@toolswapausa.com for further information.

The meeting ended at 4:30pm.

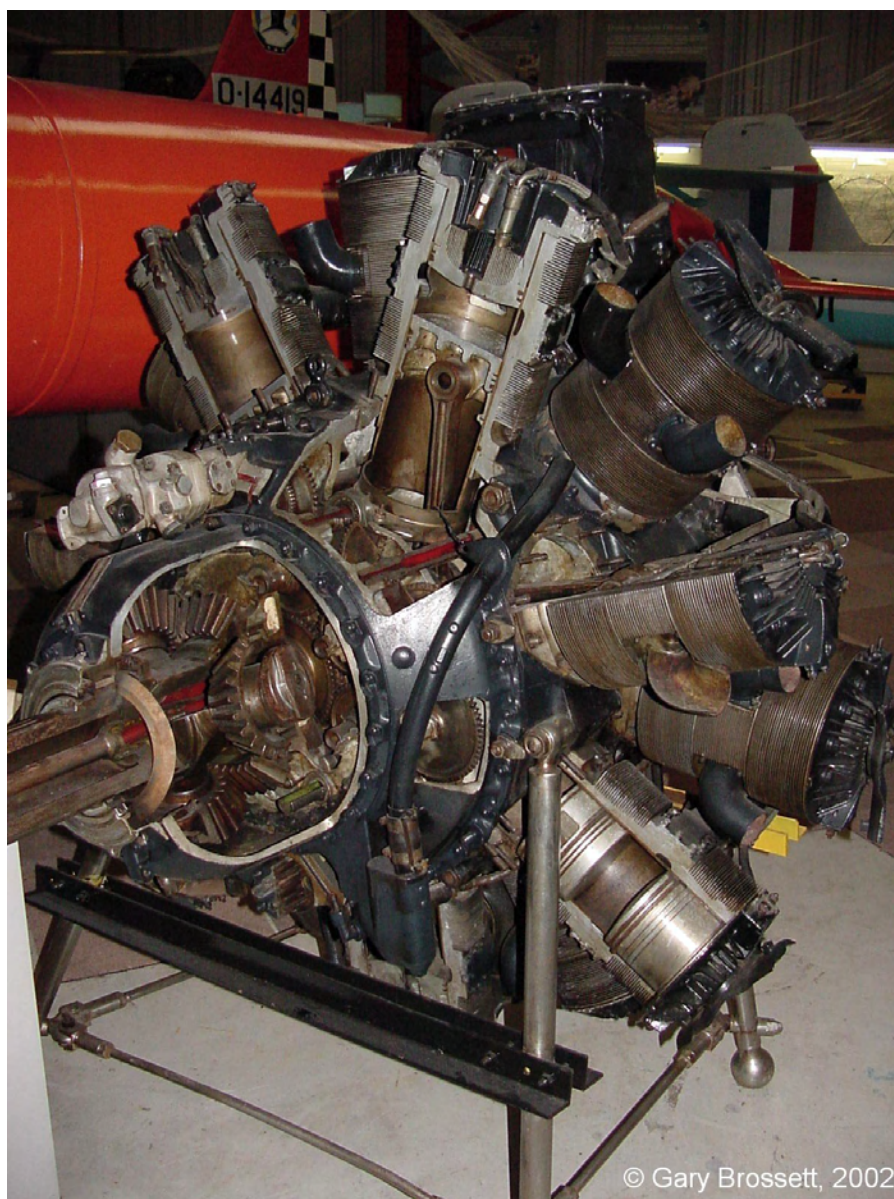
The club welcomes presentations by members or guest speakers on any subject related to metal working activities. If you have some knowledge or experience you feel may be of interest to our members, or if you know someone that may have something interesting to relate, please consider making a presentation 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, 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, or suggest an improvement 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.



Bristol Hercules Cutaway, Midlands Air Museum, Coventry, UK

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.