

SCHSM

Southern California Home Shop Machinists

May 6, 2017

OFFICERS

President	Charlie Angelis
Vice President	Michael Vulpillat
Secretary	Fred Bertsche
Treasurer	Jim Endsley

COMING EVENTS

June Meeting

Sat, June 3, 2017, 2:00 p.m.
El Camino College

Picnic

Sat, June 10, 2017
Alondra Park, Torrance

Antique Engine and Tractor Show

June 17-18 and 24-25, 2017
SCHSM Exhibit June 24, 2017
9:00 a.m. - 4:30 p.m.

Antique Gas & Steam Engine Museum

2040 Santa Fe Avenue
Vista, CA 92803

July Meeting

Sat, July 1, 2017, 2:00 p.m.
El Camino College

Model T Swap Meet

Sat, July 22, 2017
7:00 a.m. - Noon
5000 Lew Davis Street
Long Beach
Enter from Conant Street

Preface

The May monthly meeting of the Southern California Home Shop Machinists convened at 2:00 p.m. on Saturday, May 6, 2017. We met in classroom AJ115 on the first floor of the Industry and Technology Building at El Camino College in Torrance, California. There were approximately 31 members in attendance, as well as two visitors, Jim Vera, who instructs and certifies welders and pipefitters, and Leonard Vorhis, an educator active in astronomy, mentoring, and the Makers movement.

Club Business

President Charlie Angelis reminded everyone of the Club Picnic to be held on Saturday, June 10, 2017. He asked anybody on a special diet (i.e., gluten free, vegetarian, etc.) to contact him well ahead of the event and he'll make every effort to accommodate their needs. Treasurer Jim Endsley passed around a sign-up sheet and collected \$12.00 per person from those planning to attend the picnic. If you're planning to attend and have not already signed up, please contact Jim by the June meeting.

Eldon Barkley announced the upcoming Model T Swap Meet to be held on Saturday, July 22, 2017 at the Long Beach City College Veteran's Stadium. Admission is \$5.00, but parking is free. See sidebar for further information. Eldon has reserved an 18' deep x 20' wide exhibit space for the Club, and will have two pop-up canopies erected. Club members are encouraged to attend and exhibit their latest projects. Remember to bring a folding chair, plenty of water, and a hat to keep the sun off your melon. An extra pop-up canopy would be helpful. If you have one, please bring it along.

Jim Endsley spoke about the upcoming Antique Engine & Tractor Show to be held over two weekends, June 17-18 and June 24-25, 2017. The show will take place on the grounds of the Antique Gas & Steam Engine Museum, located in Vista, California. Jim has reserved an exhibition room for Saturday, June 24. SCHSM members are encouraged to display their projects and help promote the



Jim Endsley showing an aerial view of the Antique Engine and Tractor Show in Vista, CA.

Club. There are plenty of exhibits to see, such as running steam engines, running internal combustion engines, traction engines, model railroad exhibits, and vintage agricultural equipment. For additional information, go to <http://agsem.com/event-tractor-show.php>. Anybody interested in attending should contact Jim Endsley to make arrangements. There is free parking and admission for exhibitors.

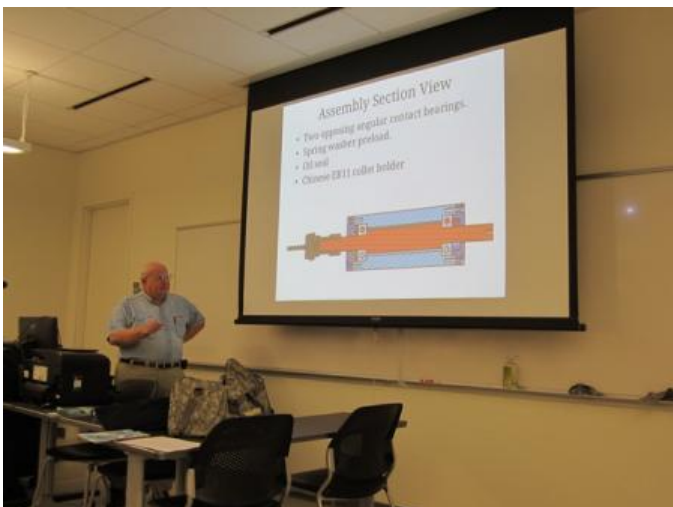
Butch Sherrick reminded the Club about Bob Mahan's 16th Annual Open House to be held at Taylor's Steel and Welding in Oxnard, California, on May 13, 2017. On display will be old hit and miss engines, antiques, and vintage farm equipment.

Chuck Norton donated to the Club a large collection of miscellaneous end mills, cutting tools, kibbles and bits. Eldon Barkley brought it to the meeting for Chuck and spread it out on the rear table for Club members to pick through. By the end of the meeting nary a crumb was left... Thank you, Chuck and Eldon!

Presentation

Router Spindle

Dan Snyder gave a comprehensive PowerPoint presentation on his current project, which is a high-speed router spindle for a CNC router table he is building. Dan designed the spindle and modeled it using OnShape 3D modeling software. He explained his choice of angular contact bearings for handling thrust and eliminating axial play in the spindle. Dan also demonstrated how spindle bearing preload and adjustment is accomplished. He chose 1144 StressProof steel for the actual



Dan Snyder showing a sectioned view of a router spindle he designed using OnShape.

spindle because it's nice to machine and has a minimal tendency to warp. Dan also said that many of the off-the-shelf components, such as seals and bearings, have 3D models available for download from McMaster Carr. They can easily be imported into 3D modeling software for incorporation into assemblies, which is a real time saver.

Congratulations, Dan, on the birth of your new grandson, Henry!

Show and Tell



L: Moody JIS Drivers C: Pieh Tool Company Catalog R: Bison Backing Plate w/ 5C Adapter

Larry McDavid showed a set of Moody JIS fastener drivers he recently purchased. He compared them to the Phillips and Torx drivers he showed during previous meetings. He said Wikipedia is a great resource for learning about fasteners and their drivers. Larry also showed a Pieh Tool Company, Inc. catalog, which he highly recommends for blacksmithing, knifemaking, and farrier supplies. Lastly, Larry shared a Bison backing plate with an integral 5C adapter that came with a Bison Set-Tru chuck he bought. The workmanship is excellent.

Michael Vulpillat advised of a gentleman by the name of Grant, DBA: Classic Tool Repair (562) 303-0503. Grant repairs micrometers, calipers, indicators, and torque wrenches.



A resource for micrometer and indicator repair.

Norm Wells showed a hand-driven seat cutter, used for truing up the valve seating surfaces of in-wall plumbing fixtures. To make his easier to use, Norm fabricated a shaft extension to allow the handle to spin clear of obstructions.

Norm also shared a couple of quick-change attachments for use in a cordless driver. The first was a Phillips screw driver with a sliding sleeve for retaining screws and holding them in alignment while presenting them to the object to be fastened. The second attachment was a small drill chuck used to enable a cordless driver to hold and turn common drill bits.



L: Seat Cutter R: Quick-Change Cordless Driver Accessories

Jim Endsley showed a fixture he made to hold parts for powder coating. His fixture allows for more even and complete coverage when applying the electrostatically charged powder to work pieces. It continues to hold the parts throughout the baking process so that the powder remains undisturbed.



Jim Endsley's Powder Coating Fixture.

Lewis Sullivan showed some clever applications to recycle the neodymium magnets found in the disposable brush heads of electric tooth brushes. He fastened some of the magnets onto the end of a wooden stick to form a strong, but narrow pick-up tool. They hold a remarkable amount of weight. He attached other magnets to keys so they could be placed on a metal surface for storage and easy retrieval.

Matt Rulla gave a slide show of photos he took at the Edelbrock Shop Tour earlier this month. As always, the tour was well-attended, with access given to all the major departments, from R&D to Manufacturing to Quality Control.



Matt Rulla giving a slide show of the Edelbrock Shop Tour.

Michael Shalhub showed a large Greenlee knockout punch that produces a square 1 3/8" hole in sheet metal. It can also be used to punch out only the corners of much larger square holes, the centers of which can then be finished with shears or nibblers.



Michael Shalhub's Greenlee 1 3/8" Square Knockout Punch.



2017 Edelbrock Shop Tour - Random Photos

SCHSM 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, video, or physical displays. Probably every member has some experience they can share, and this is the purpose of SCHSM. Please contact President Charlie Angelis to make arrangements to give a presentation.

SCHSM meets in Classroom AJ115 on the first floor of the Industry and Technology building of El Camino College, 16007 Crenshaw Blvd. Torrance, California, at 2:00 p.m. on the first Saturday of every month. The building is near Parking Lot B. Enter the campus from Manhattan Beach Blvd.

If you would like to contribute an article to this newsletter, or make a comment, contact the editor, Fred Bertsche. He can be reached via the SCHSM Yahoo Group, or at fbschsm@yahoo.com.

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