



SCHSM

Southern California Home Shop Machinists

August 5, 2017

Preface

The August monthly meeting of the Southern California Home Shop Machinists convened at 2:00 p.m. on Saturday, August 5, 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 32 members in attendance, and no visitors.

Club Business

President Charlie Angelis asked for a review of the Model T Swap Meet, which was held last month. Seven members attended and displayed projects. The event wound down by 11:00 a.m.

Millar Farewell announced that he continues to work on arrangements for an October tour of the Edelbrock Foundry. He will keep the membership informed as things progress.

Douglas Walker reminded everyone about the upcoming Anderson Plywood Old Tool Swap Meet. See sidebar for details, or visit <https://www.andersonplywood.com/572/old-tool-swap-meet/>.

Club Auction

It was once again time for the club's annual in-house auction. Members had the opportunity to bring their surplus machinery, tooling, hardware, materials, fly swatters, you name it, and auction it off. They could keep the proceeds for themselves, or donate them to the club's general fund. Some home shops wound up roomier, others more crowded. Whatever the case, bidders and spectators alike had a great time as the bidding wars heated up.

This year's auction saw the following items change hands: R-8 arbors and assorted cutters, tilting vise, pneumatic actuators, small engine analyzer, bundles of shop rags, microscopes, label maker, lathe tool holders, Pelican case, articulating arms, electric motors, drill index, linear actuators, mill vise, plumbing tools, and assorted shelving.



Auctioneer Jim Long kicking off the Club's in-house auction.

OFFICERS

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| President | Charlie Angelis |
| Vice President | Michael Vulpilat |
| Secretary | Fred Bertsche |
| Treasurer | Jim Endsley |

COMING EVENTS

Anderson Plywood Old Tool Swap Meet

Sat, August 19, 2017, 6:00 a.m. - Noon
4020 Sepulveda Blvd
Culver City, CA 90230

WEME Show

August 25-27, 2017
Alameda County Fairgrounds
4501 Pleasanton Av.,
Pleasanton, CA 94566

September Meeting

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

WESTEC

September 12-14, 2017
L.A. Convention Center

October Meeting

Sat, October 7, 2017, 2:00 p.m.
El Camino College

Show and Tell

Jim Endsley showed a leather handle he made as a gift for Phil Potter. The handle was made to lift a large lead ballast weight that attaches to the underside of Phil's model Schnabel Car - a specialized railroad freight car. The handle eliminates direct contact with the lead weight when disassembling and transporting the model.

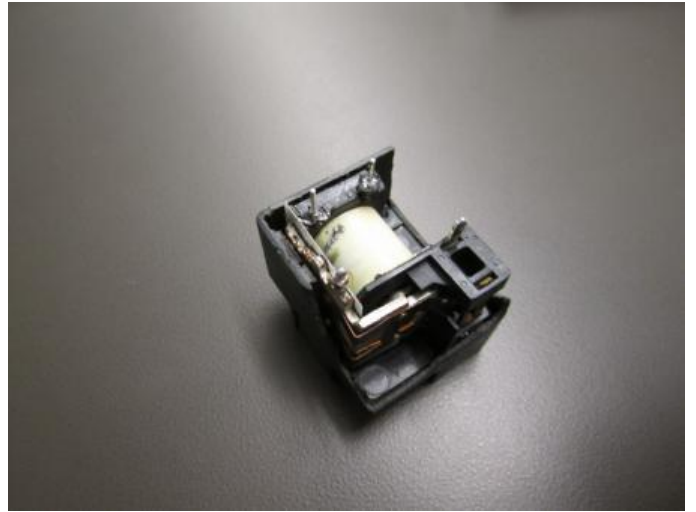


Jim Endsley made this leather handle to carry a lead ballast weight.



Phil Potter's model of a Schnabel Car. See lead ballast weight attached to the undercarriage.

Lewis Sullivan showed how he made a field repair to one of the relays of his MIG welder. He was able to finish his welding project without having to wait for a replacement relay. He also explained that when he ordered the replacement relay, he upgraded it to a higher service rating. The upgrade should make his welder more reliable in the future.



Relay from Lewis Sullivan's MIG welder. Contacts had been damaged from arcing.

Lewis also showed how he replaced the worn composite main bushing of his Scotchman Ironworker. The composite bushing's outside diameter was undersize, requiring the factory to epoxy it in place upon initial assembly. Lewis bought a bronze replacement bushing, but its OD was also undersize. Rather than epoxy it in place, Lewis found some shim stock of the appropriate thickness for a slight interference fit and fashioned a sleeve to go between the bushing and its casting. It was then just a matter of pressing the bushing and sleeve into place.



Worn composite main bushing from Lewis Sullivan's Ironworker.

Lewis brought an assortment of drivers he made from scrap material to assist with his presswork.



Misc. home-made drivers made by Lewis Sullivan.

Pat Dobbins told the group about Ganahl Lumber, which has stores throughout Los Angeles and Orange Counties, and now a new store in the South Bay Area. Pat advised that Ganahl not only has an impressive variety of lumber, but also specialty hardware and tools.

Marv Frankel asked for ideas on how to more easily remove his large, heavy mill vise from the mill table. Marv explained that the fasteners that came with his vise are tee nuts with integral studs that protrude well above the top surface of the vise flanges, allowing for attachment of a large securing nut. There is a hole in the center of each vise flange through which the studs must go. This requires lifting the entire vise high enough above the table to clear the top of the studs when removing or replacing it. Marv considered slotting the ears of the vise flanges to allow for the studs to be slid out of the way. The vise could then be moved without having to lift it. However, Marv was reluctant to modify the vise unless he had no other option.

Ron Gerlach suggested replacing the one-piece tee nut/stud with ordinary tee nuts and bolts to secure the vise. With the bolts removed, the vise no longer needs to be lifted for removal or installation. Of course, the bolts would have to be short enough to clear the bottom of the tee slot when tightened to avoid damaging the mill table.

Matt Rulla suggested mounting an articulating arm to the mill's column, a wall, or some other fixed object in such a manner as to allow the moveable end of the arm to reach the vise jaws. A metal plate is mounted in the moveable end of the articulating arm and allowed to pivot. The plate is positioned between the vise jaws and clamped tightly, effectively attaching the vise to the articulating arm. After loosening the vise fasteners, the mill's knee is lowered until the vise clears the table and/or fastening hardware. Then the vise is simply pushed out of the way until needed again.

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.