



# SCHSM

Southern California Home Shop Machinists

March 3, 2018

## OFFICERS

President	Charles Angelis
Vice President	Michael Vulpillat
Secretary	TBD
Treasurer	Jim Endsley

## COMING EVENTS

April Meeting  
April 7, 2018  
2:00 P.M.  
El Camino College

Picnic  
June 9, 2018  
Alondra Park  
Manhattan Beach Blvd.

## Preface

The March monthly meeting of the Southern California Home Shop Machinists convened at 2:00 P.M. on Saturday, March 3, 2018 in classroom AJ115 on the first floor of the Industry and Technology Building at El Camino College in Torrance California. We had one visitor, Mike Martin, who has recently moved to Southern California from the Bay area where he was a member of the Bay Area Engine Modelers. Mike has Taig and Craftsman 6" lathes and is interested in building steam engines and locomotives.

## Club Business

Larry McDavid told of changes at Yahoo and the possibility that there might be changes in the Yahoo Groups features. He is setting up a group-like site at groups.io which we may use if we become dissatisfied with our Yahoo Group. This does not mean that the SCHSM Yahoo group is going away and we will continue to use it as we have for the last ten or so years. Larry is taking a precaution in setting up the groups.io group to ensure we continue with uninterrupted communications in case something untoward happens.

## Presentation

Bob Devoe gave a presentation entitled "Aluminum Extrusion by Hydraulic Press - Impact Press". He told of his experiences as an engineer designing dies and equipment for the extrusion process. Bob described the continues casting method of producing aluminum billets for use in the extrusion process. He told about die design considerations based on part and press size and the cost of press time.



*View of both sides of a die*

He described the hydraulic press extrusion process and showed example dies. He pointed out design considerations in the example dies to produce certain effects in the extruded form. This was a very interesting and well presented talk with plenty of examples and accompanying slides.

### Show and Tell

Michael Vulpilat told about Technical Tuesday meetings for volunteers on board the USS Iowa. The talks take place each Tuesday evening between 1800-2000. Michael wasn't sure how non volunteers might attend.

Charles Angelis showed a spring loop forming plier from Ebay and a Tad Calculator with a built in slide rule.

Jim Endesly attended the Plastec West Exhibition in Anaheim in February. He particularly liked a warehouse robotics exhibit showing robot workers serviced by humans. Robots wait at locations near inventory until a human comes by and reads an acquisition display. The human locates the item on a nearby site and loads it unto the robot, which then scurries off to deliver it as needed. Jim collected a whole bag of goodies at the show.

Lewis Sullivan spoke about replacing internal seals on equipment he has. He showed a tool he made based on an expensive tool he really didn't want to buy. This is a very clever tool that deforms the seal to a small enough diameter to fit into its groove in a tube. Lewis also offered some silver brazing properties data to advise Don Huseman.

On a recent trip to North Carolina Pat O'Reilly visited with Randolph Bulgin, who is a contributor to Home Shop Machinist Magazine. Pat found Randolph to be a gracious friendly guy who welcomed him to his home.

Larry Lee showed an Anullar Cutter he bought to drill out around a broken drill bit in an aluminum part.

Dan Snyder gave a short presentation on Gear Cutting With A Computer Controlled Indexer. Dan acquired a NEMA 42 Stepper Motor, that is a failrly large motor. He fabricated a bracket to mount it as an X axis power feed on his Tree mill driving the lead screw with a timing belt. The computer controlled drive automates the gear cutting process by moving the table back and forth as each tooth is cut.



Visitor Mike Martin came prepared and showed a small steam engine he made about 20 years ago. He also showed an antique steam engine from 1903 and told of his experiences running it. Mike also showed a boiler fabricated from copper he uses to drive his engines. He made the end caps for the boiler by the metal spinning technique.





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The 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 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 Michael Vulpilat to make arrangements to give a presentation.

The SCHSM meets in class room AJ115 on the first floor of the Industry and Technology building 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 B. Enter the campus on Manhattan Beach Blvd.

If you would like to contribute an article to this newsletter or make a comment about the newsletter, contact the editor, Ken Rector, via the SCHSM Yahoo Group, or at [kdrhoo@yahoo.com](mailto:kdrhoo@yahoo.com).