Southern California Home Shop Machinists



Gorton Pantograph (see pg. 4)

Club Officers:

President: Douglas Walker

Vice President: Michael Miller

Treasurer: Frank Schettini

Secretary: Butch Sherrick

Ron Gerlach Webmaster

Larry McDavid SCHSM groups.IO Manager

Club Events:

Model T Club Auction Saturday, July 15, 2023 Long Beach City College Veteran's Stadium General Admission \$5.00 (Club members will be attending and displaying, and generally get in free)

Annual Club auction/sale At August club meeting

SCHSM Newsletter June 3, 2023

Call to Order: The June 3, 2023 meeting of the Southern California Home Shop Machinists was called to order at approximately 2:00 pm by Club President Douglas Walker. The meeting was held live at El Camino College and online via Zoom.

Club Business

Doug Walker discussed final details of the club picnic, which was to be held the following Saturday, June 10, at Alondra Park in Torrance. Club Treasurer Frank Schettini then gave a report on the state of the club's finances.

Doug thanked member David Brown for arranging a guest speaker from the Lawrence Livermore National Laboratory to speak on the subject of Fusion Ignition.

Upcoming events were discussed:

Antique Engine and Tractor Show

Date: June 17-18, 2023 /June 24-25, 2023 Location: Antique Gas & Steam Engine Museum 2040 N. Santa Fe Ave., Vista, Ca. 92083

BAR-Z Summer Bash

Date: Last weekend in June (See website for exact dates) Location: Rancho Cucamonga, CA

**Model-T Club Swap Meet

Date: Saturday, July 15, 2023

Location: Veteran's Stadium at Long Beach City College

5000 Lew Davis St., Long Beach, Ca.

Website: www.lbmtc.com

**Note: Club members will be attending and displaying at this event. Flyers are available from Eldon. Club tables are 1019, 1020, and 1021. Club members generally get in free.

Presentations — Dr. Clement Trosseille—NIF

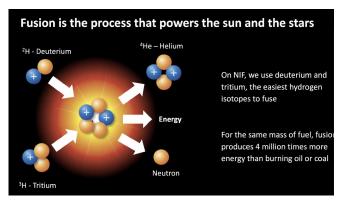
Dr. Clement Trosseille, a Research Scientist at the National Ignition Facility, which is part of the Lawrence Livermore National Laboratory, was introduced as our guest speaker. His topic was the recent ground-breaking fusion reaction experiment where for the first time more energy was produced than put in to create the reaction.

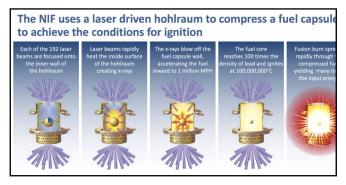
Presentations (cont.) — Dr. Clement Trosseille—NIF

On Dec. 5, 2022, the National Ignition Facility demonstrated fusion ignition in the laboratory for the first time

- On shot this shot, NIF delivered 2.05MJ of laser energy to the target to create a plasma with a temperature of 130 million degrees, that produced 3.15 MJ of fusion energy
- This shot met the 1997 National Academy of Science definition of fusion ignition
- This accomplishment was built on decades of hard work and dedication by many people at LLNL, in partnership with the whole fusion, plasma, and High Energy Density Science (HEDS) community

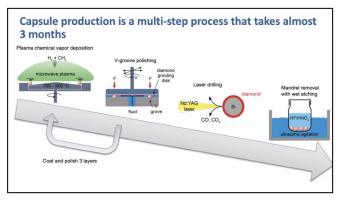
Ignition enables a new era of applications for Stockpile Stewardship and the foundation for Inertial Fusion Energy

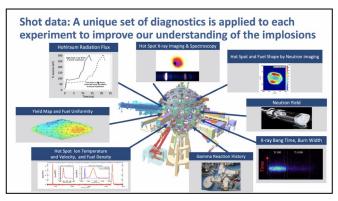


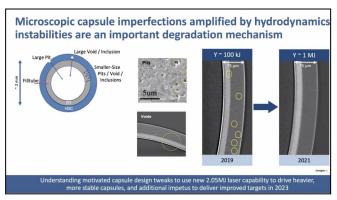












Note: This presentation, as most that are shown in the newsletter, has been edited for brevity. Members are encouraged to attend monthly meetings to enjoy the entire presentation. Additional presentations on this topic are available on YouTube.

Show and Tell





Bill Nelson shared a couple new projects he completed: Bill displayed two chuck keys he made for his Delta wood mortiser. The key on the right he has Parkerized, the other he has not. The usual top notch quality that we're used to seeing in his projects!

Bill's woodturning guild had a challenge to create a pot for a single flower or attractive weeds, they dubbed a "weed pot". Bill decided to have some fun with the name of the project and made the creation in the right-hand photo above.



Don Huseman shared multiple pieces of equipment he has acquired over the years and is willing to loan out to club members. See Don for details.

Featured Equipment (see last page)

Members are encouraged to participate in the monthly Featured Equipment by emailing a few photos and a brief description to Butch Sherrick, club Secretary. The equipment can be new or old, perfect condition or a scrap-yard find. The intent is to share knowledge, generate interest, and encourage conversation between members.

Southern

California

Home

Shop

Machinists

When and where we meet:

First Saturday of every month, 2:00 p.m.

El Camino College Classroom AJII5 Ist Floor of the Industry and Technology Building I 6007 Crenshaw Blvd Torrance, CA 90506

The building is near Parking Lot B. Enter the campus from Manhattan Beach Blvd.

This Month's Featured Equipment (from top of first page)

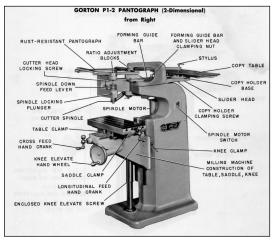
Pantographs cut parts using a stylus to follow a master pattern, and controlling the movement of the cutting head through an adjustable linkage. The linkage can be adjusted to create parts of a different scale from the master pattern.

Matt Rulla's Gorton Model P1-2 Pantograph was purchased off of Craig's list, and per Matt it was in sad shape. He completely refurbished it, including bearings, electrical, paint, and handscraping the ways with skills he acquired in a class on scraping. This 2-dimensional model is for general engraving, die, mold, or stamp cutting and profiling. 3D pantographs were used in such places as the U.S. mint to create dies for coins from sculpted masters. Pantographs have largely been replaced by CNC machines



Note Matt's beautiful scraping





Participation

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 who 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. Please contact President Douglas Walker to make arrangements to give a presentation. If you would like to contribute an article to this newsletter or make a comment, contact the Secretary, Butch Sherrick. He can be reached via the SCHSM Groups.io Group. Please note that presentations submitted for the newsletter may be edited for brevity. To enjoy the entire presentation members are encouraged to attend the monthly meetings.

We're on the Web! www.schsm.org