



METALLAGRAM

LONG ISLAND CHAPTER



Volume 67 Issue 8

Chapter website: <http://DoL1.eng.sunysb.edu/asm/>

STUDENT NIGHT

Next Meeting Wednesday, April 22, 2026

Where Old Field Club, East Setauket, NY

Oral and poster presentations by Stony Brook University Seniors

Joint Meeting with ESG/ESM Programs

6 pm...Start, Networking, Free Buffet, and Cash Bar

Limited number – pre-registration required

(sorry - no walk-ins allowed)

Email Jim Quinn to secure your spot RSVP james.quinn@stonybrook.edu

Directions to Old Field Club:

From the Long Island Expressway (495) either direction, take Exit 62 N (Nichols Rd., Rt. 97). Follow Nichols Rd. to the end, turn left onto Rte. 25A, go about one mile. Turn right onto Quaker Path (opposite Stony Brook LIRR Train Station) and stay on Quaker Path north 1.3 miles to fork. Stay left at fork onto Mt. Grey Rd. and follow to West Meadow Rd. Turn left onto West Meadow Rd - the Old Field Club will be on the left, after the tennis courts. Physical address: The Old Field Club, 86 West Meadow Road, East Setauket, New York 11733. Telephone: 631-751-0571. <http://www.oldfieldclub.com>

(GPS systems are known to get this location incorrect)

Hydro Halo:

Miles Vaska, Anureet Kaur, Bianca Talusan, Nicholas Zanetto

Drowning causes over 300,000 deaths worldwide each year. In the U.S., 556 people died in boating accidents last year, 87% of these people were not wearing flotation devices. Traditional life jackets remain the standard flotation device for recreational boaters. To improve safety and comfort, this device introduces an inflatable safety belt designed to wrap around a person's midsection and automatically inflate upon water submersion. Inflation is activated via a manual pull tab or triggered through a soluble bobbin assembly, releasing CO₂, inflating a reflective ring around the torso in less than a second to keep the head and chest above water. The inflatable unit is secured within a fabric cover at the back of the belt, maintaining a lightweight and non-invasive profile when not in use. Additionally, an integrated GPS system transmits the wearer's location via iMessage upon submersion, enhancing rescue response in emergency situations.

Diverse Option Residential Entrance: Dominic Gentile, Junsung Lee, Jake Stearns, and Khan-Tanaz Hightower

Individuals with limited hand and wrist strength or mobility often find it difficult opening doors due to the grip strength and twisting motion required. D.O.R.E is an installable system that uses a motorized wheel assembly mounted at the base of the door, along with an automatic latch locking system for hands free opening and closing of a door. D.O.R.E aims to provide manual or automatic operation in homes or senior assisted living facilities.

RE3D (Recycle Extrude 3D Print): Vinson Zheng, Rigden Ghongpa, Jhonny Calle Coba, Simran Parasram

In desktop 3D printing, significant plastic waste is generated from failed prints and excess filament. RE3D (Recycle Extrude 3D Print) addresses this issue through a compact, low-cost add-on system that converts discarded PLA into reusable filament. The device shreds waste plastic then melts and extrudes it into consistent filament, which is guided and spooled for reuse. A microcontroller-based control system regulates key parameters such as temperature and motor speeds to ensure stable and repeatable operation. Designed for hobbyists and home users, RE3D reduces material waste while lowering filament costs and promoting sustainable manufacturing practices.

Gripper Gloves:

Jacob Sacilowski, Sabrina Chan, Karen Li, Emma Fallon

Over 80% of hospitalized stroke patients suffer from hemiparesis; weakness or inability to move one side of the body, particularly in the hands and fingers. Gripper Gloves is a two-part device that combats this issue by improving brain plasticity and finger mobility. A daily-use wearable glove assists the gripping and opening motion using artificial tendons controlled by a servo motor and springs. A rehabilitation device provides supplementary physical therapy, facilitating guided finger exercises actuated by shape memory alloy wires.



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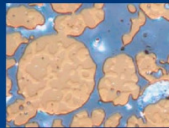
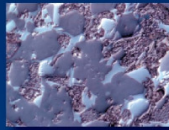
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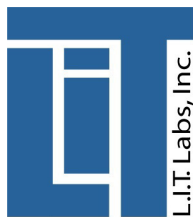
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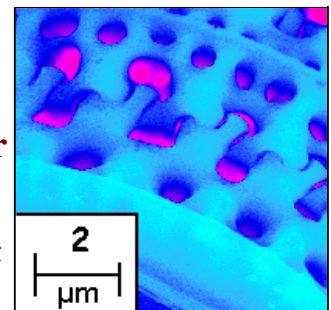
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ON-LINE FORUM

ASM now has an active on-line forum called "ASM Online Member Community". You can join by going to:

<https://www.asminternational.org/communities>

Long Island Chapter Meeting Schedule

- Wed. Apr 22, 2026** **Student-Nite**
Senior Design Students Present
Old Field Club, nearby
West Meadow Beach
- Wed mid-late May** **Executive Committee meeting:**
a) Review finances
b) New ASM-central system
c) New Leadership Days plan
d) 2026-2027 scheduling
e) Open discussion

Metro NY-NJ Chapter

www.asminternational.org/web/metro-nynj-chapter

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