



*Society for the
Advancement of
Material and Process
Engineering*

SAMPE Los Angeles Chapter News and Information



**April
2022**

JOINT MEETING OF LOS ANGELES AND USC SAMPE CHAPTERS MC GILL COMPOSITES CENTER April 25, 2022 (Monday) at 6:00 PM



ADDRESS:

University of Southern California
Grace Ford Salvatory Hall, Room 106 (GFS-106)
3601 Watts Way
Los Angeles, CA 90089

Parking:

Enter Downey Way Entrance, park in structure labeled "Downey Way Parking Structure"

TIME:

6:00 PM --- Pizza Dinner (Free)
6:30 PM --- Presentation
7:00 PM --- Lab Walkthrough and Poster Session

RESERVATIONS

Make a reservation at;
<https://us02web.zoom.us/meeting/register/tZ0kc-6ppzMsGdxXQ7ici7NkB8ePZODJOZe0>

and then either tune into Zoom or come to USC for the meeting and Pizza Dinner.

USC RESEARCH ACTIVITIES

USC SAMPE and the MC Gill Composites Center invites composites industry professionals, students, researchers, and enthusiasts to the University of Southern California for the fifth annual joint meeting of the Los Angeles and USC SAMPE Chapters. The evening will begin with a pizza dinner and social time, where--back by popular demand--Joe's Pizza and soft drinks will be served, free of charge. The MC Gill Composites Center, directed by Professor Steven Nutt, has prepared a presentation of recent research developments in composites processing. There will be introductions to the Center, describing the background and qualifications of our professional, graduate, and undergraduate research staff, before senior Ph.D. candidates will present new developments in prepreg design, automated layup, and vacuum infusion. Additional projects will be briefly highlighted to illustrate the scope of research contributions at the M.C. Gill Composites Center and inspire discussion between students and industry professionals. After the presentation, guests will have the opportunity to join a walk-through of the lab space managed by the center. Research posters will be on display, and guests will be provided an opportunity to discuss results directly with the student researchers responsible for the data presented.

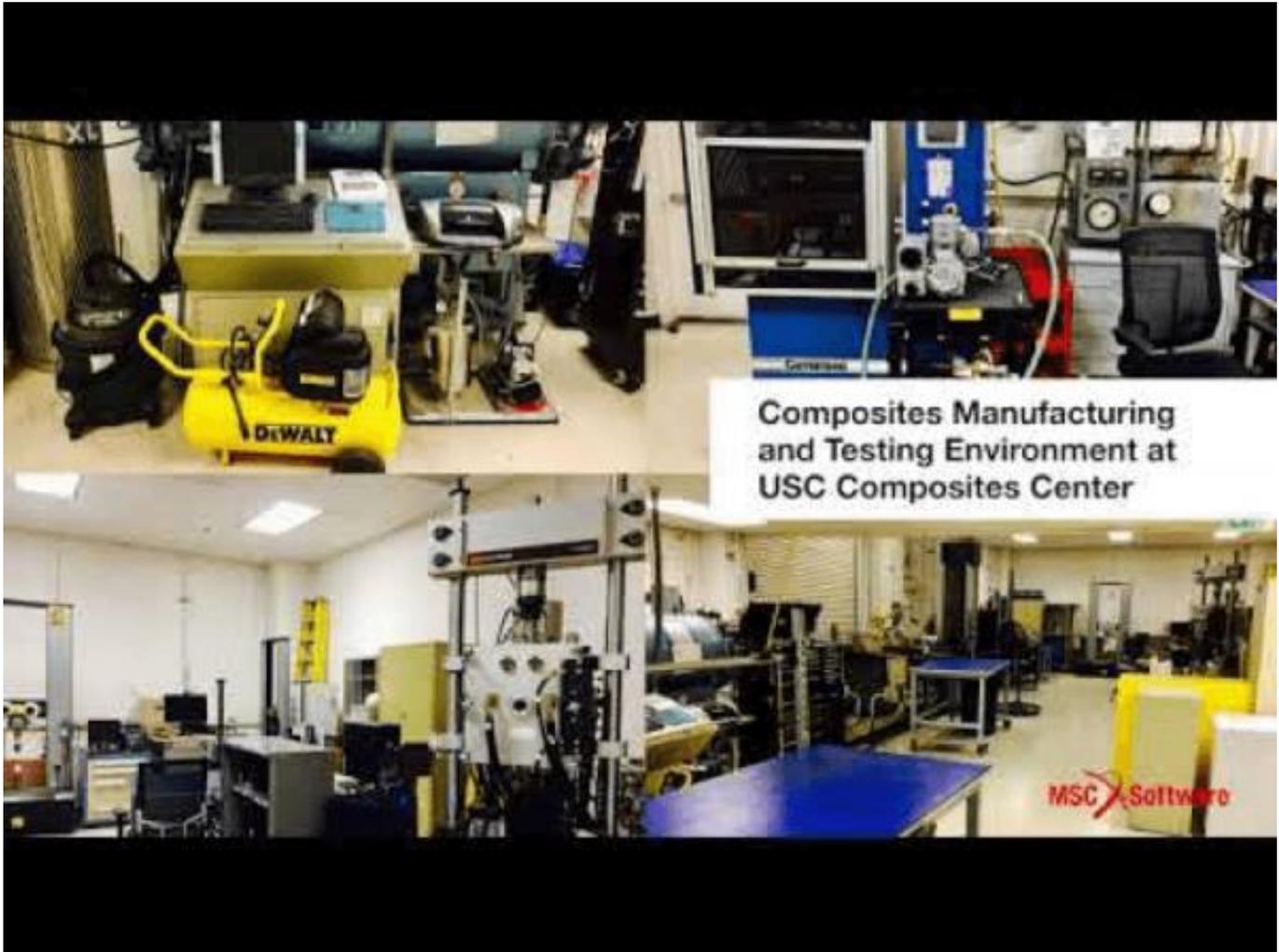


MC GILL COMPOSITES CENTER



Established in 1995 and endowed with a generous gift from M.C. Gill in 2002, the mission of the MC Gill Composites Center is to address problems associated with the design, manufacture, and performance of composite materials and structures. The Center strives to train graduate and undergraduate students in the material selection, design, processing, and qualification of composite structures while simultaneously working to address practical challenges through industry-sponsored research and development activities. Personnel within the composites center make available a range of expertise, with specialized skills including, but not limited to, mechanics, polymer science, and manufacturing technology. Student researchers work closely with industry sponsors, and previous and ongoing collaborations have involved the likes of The Gill Corporation, Airbus, General Electric, Composite Technology Corporation, HRL Laboratories, Raytheon, NASA, Cytec Engineered Materials, L'Garde Corporation, Bell Helicopter, NewBasis, HyperTherm Composites, and Northrop-Grumman. More information about the center and current research activities can be found online at <http://composites.usc.edu>.

A lot going on at the MC Gill Composites Center at USC.

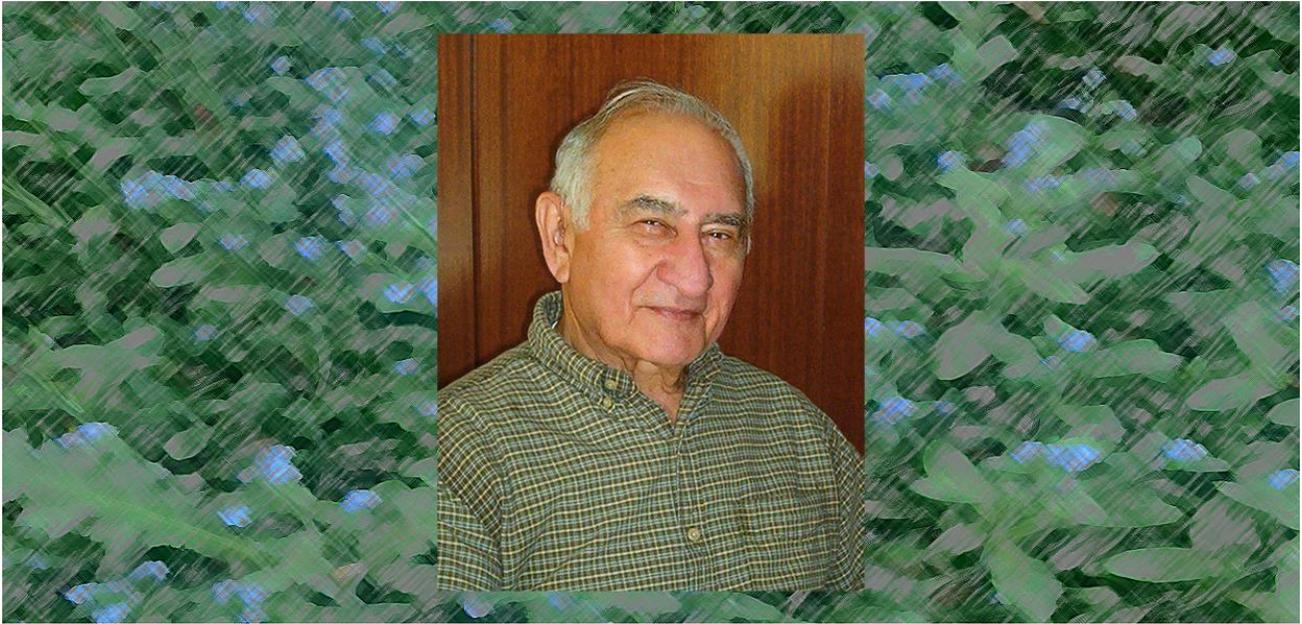


Schedule of Upcoming Events

Event	Presented From	Date
Joint Meeting of Los Angeles and USC SAMPE Chapters	USC, Los Angeles, CA	April 22, 2022
Southern California Facilities Expo	Anaheim, CA	April 27 – 28, 2022
TechCon (Society of Vacuum Coaters)	Long Beach, CA	April 30 – May 5, 2022
Del Mar Electronics & Manufacturing Show	Del Mar, CA	May 4- 5, 2022
Space Tech Expo	Long Beach, CA	May 23- 25, 2022
CAMX	Anaheim, CA	October 10 -13, 2022
Anaheim Electronics & Manufacturing Show	Anaheim, CA	November 16 -17, 2022



In January 2022, Elroy Air unveiled the design of their pre-production Chaparral C1 vehicle, an autonomous VTOL aerial cargo platform. It has a 300 lb capacity and a 300 mile range.



George Epstein
November 9, 1926-March 29, 2022

We are saddened to share that George Epstein passed away on March 29, 2022. Epstein was a giant in the composites industry, a SAMPE Lubin Award recipient ('96), SAMPE Fellow, SAMPE-LA Vice Chairman, and board member. He established the Irene Epstein Memorial Scholarship Fund in honor of his late wife and was passionate about assisting first-generation students going to college who major in STEM.

"The story of SAMPE would not have been written without Mr. Epstein and cannot be told without sharing his legacy," said SAMPE North America CEO, Zane Clark. "Mr. Epstein's passing is a great loss to the SAMPE community and the industry he so loyally served," "We extend our deepest condolences to his family and friends."

As a graduate student/research fellow at MIT, George Epstein studied the effects of elevated temperature on structural adhesives. Later at North American Aviation, he developed the first high temperature structural adhesives. This technology is used today in film adhesives in aircraft and space systems. Among his many pioneering achievements, Epstein's 1954 book, *Adhesive Bonding of Metals*, was the first on structural adhesives.

In lieu of flowers, please consider sending contributions to the SAMPE Los Angeles Chapter:

The Irene Epstein Memorial Scholarship Fund
c/o SAMPE Los Angeles Chapter
Dr. Clement Hiel
767 Channel St., San Pedro, CA 90731

Irene Epstein Scholarship

The Irene Epstein Memorial Scholarship Awards were initiated in 1996 shortly after the death of Irene Epstein, to honor her volunteer efforts on behalf of the Society for the Advancement of Material and Process Engineering (SAMPE), and to recognize her strong desire to assist financially-needy, academically-deserving students at Fairfax High School (Los Angeles) to attend college to study engineering, science, mathematics, or medicine.

The Irene Epstein Memorial Scholarship Awards program was initially funded by contributions from The Aerospace Corporation and SAMPE. It is also supported by the Air Force Space Systems Manufacturing Problem Prevention Program (MP3).

The program is administered by Dr. Howard A. Katzman, Senior Scientist at The Aerospace Corporation, and Education Chairman of the Los Angeles Chapter of SAMPE.

Many individuals and companies have generously contributed to help the fund grow so the amount of the scholarship awards has increased five-fold since it started. In addition, a special Book Awards was introduced three years ago to help selected students in the purchase of their college textbooks. If you would like to make a donation or learn more about the scholarship, please contact Dr. Howard A. Katzman at 310-336-5860 or e-mail him at Howard.A.Katzman@aero.org.

Thank you all for your sponsorship and support of SAMPE – LA!!!

Our list of sponsors is growing!!! Sponsors get monthly exposure in our mailing to over 500 members and associates of the local chapters of SAMPE. Sponsors also get a link to their corporate webpage via the SAMPE Los Angeles Chapter website.

For information on being a sponsor, please contact:

Howard A. Katzman

(310)336-5860

SAMPE-Los Angeles Sponsors

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Thank you all for your sponsorship and support of SAMPE-LA!!!