



Society for the
Advancement of
Material and Process
Engineering

SAMPE

Los Angeles Chapter

News and Information



February
2019

*Dr. Scott W. Beckwith Presentation on
"Tooling Technologies for Composites Manufacturing: Additive,
Metal, Composites, Rubber, Shape Memory, Molds and More"*

At USC Hotel (next to USC Campus)

February 26, 2019 (Tuesday) at 6:00 PM



USC Hotel – Hotel at the University of Southern
California

3540 S Figueroa St
Los Angeles, CA 90007
Room: Victory A

PARKING:

Plenty of parking at a nominal fee.

TIME:

6:00 PM –Dinner and mingle
6:30 PM – Presentation
7:15 PM – Questions and answers
7:30 PM – Adjourn

RESERVATIONS:

Please [RSVP](#) by email to
eric.ehlers@canyoncomposites.com
Include name of all attendees in the RSVP.

About Dr. Scott W. Beckwith



Dr. Beckwith has worked in the composites industry for the past 53 years in various design, manufacturing and marketing positions within both the aerospace and commercial markets. He is a SAMPE Fellow and an SME Jud Hall Awardee. He has a background in composites design and analysis, testing and inspection, manufacturing, carbon fiber technologies and failure analysis with Hercules Aerospace, Structures and Carbon Fibers (now Northrup Grumman and Hexcel). With over 550 technical publications and presentations, he frequently conducts composites tutorials, seminars and workshops. He has a technical background in carbon fiber materials, filament winding and fiber placement technology, and liquid moulding/resin infusion manufacturing technologies. He is also the *SAMPE Journal* Technical Edit

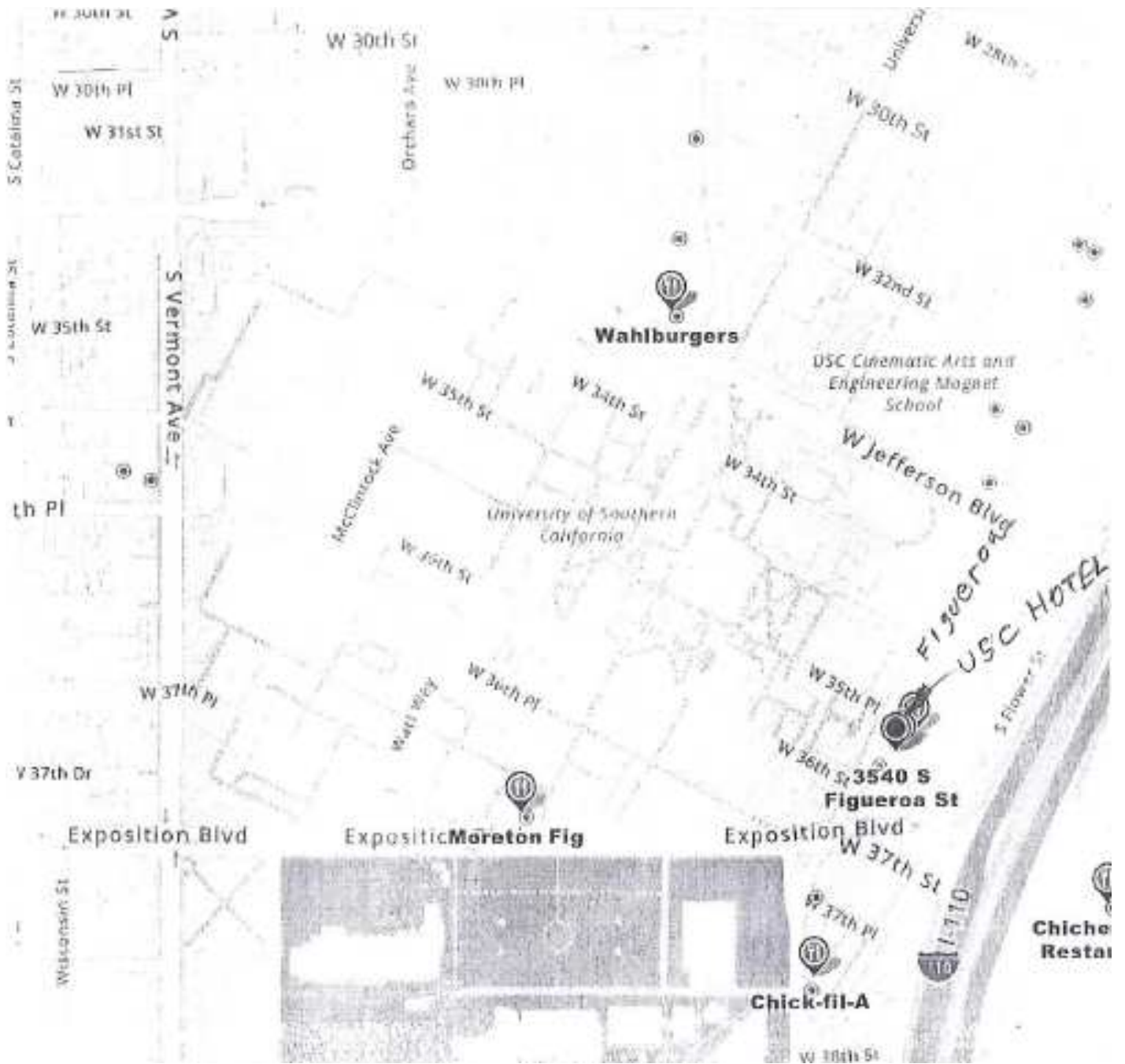
About the Presentation

“Tooling Technologies for Composites Manufacturing: Additive, Metal, Composites, Rubber, Shape Memory, Molds and More”

Tooling is the basis for forming almost all composite structures and in a sense, is a “market for processing composites” in itself. The intent of this presentation is to provide interested attendees with a detailed overview of tooling technologies currently available using various materials: metals, composites, rubber & elastomers, shape memory materials, foams, ceramics, additive materials, hybrids, and many more options. Limitations, operational temperature boundaries, durability issues, material properties, tooling support structures, and other issues pertinent to both Prototype and Production will be covered. Since significant applications involve “molding” processes, mold tooling often is important to infusion processes such as RTM, VARTM, VIP, RFI, SQRTM, and numerous HP-RTM (type) processing today. Numerous end-use applications of structures will be provided along with the presentation materials.



MAP - USC HOTEL



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 email him at

Howard.A.Katzman@aero.org.

Schedule of Upcoming Events

Event	Location	Date(s)
Dr. Scott W. Beckwith Presentation	USC Hotel, Los Angeles, CA	February 26, 2019
Tooling Technologies For Composite Manufacturing	University of Southern California, Los Angeles, CA	February 26 & 27, 2019
CTC Tour	Irvine, CA	March 26, 2019

SAMPE-Los Angeles Sponsors

<u>Company</u>	<u>Contact</u>	<u>Phone</u>	<u>E-Mail</u>
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Element Materials Technology	John Moylan	818 247 4106	John.Moylan@element.com
Hitco Carbon Composites	Les Cohen	310 970-5409	lescohen@aol.com
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Thermal Wave Imaging	Steve Shepard Alan Nusbaum	248 414-3730	Sshepard@thermalwave.com alannusbaum@thermalwave.com
Toray Composites (America)	Nate Monroe	253 320-8958	nmonroe@toraytca.com

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For information on being a sponsor, please contact:

Howard A. Katzman

(310) 336-5860

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