



Society for the
Advancement of
Material and Process
Engineering

SAMPE

Los Angeles Chapter

News and Information



October
2018

**JOINT MEETING
OF
LOS ANGELES AND ORANGE COUNTY CHAPTERS
AT
CERRITOS COLLEGE PLASTICS/COMPOSITES
TRAINING FACILITIES
With Presentation From DR. CLEMENT HIEL
Plus a Bonus Book Raffle
October 25, 2018 (Thursday) at 6:00 PM**



All interested people including Junior and High School students are welcome

ADDRESS:

Cerritos College
11110 Alondra Blvd.
ME Building
Room ME-1 (See Campus Map below)
Norwalk, CA 90650

PARKING:

Cerritos College Lot C10 off of 166th Street (see map below)

TIME:

6:00 PM – Complimentary pizza and Social networking.
6:30 PM – Presentation of the Composites and Plastics program followed by a tour of the training facilities at Cerritos College

RESERVATIONS:

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

About Cerritos College

Cerritos College is Southern California's premier technical training program for our fast growing composites industry. Cerritos College has offered technical training in Plastics & Composites since 1974. Its focus is on hands-on training, high-tech equipment, and low college tuition. Prof. Miodrag "Mickey" Micic will provide an overview of the Plastics & Composites program, and a guided tour through the 20,000 square foot state-of-the art training facilities, highlighting recently added equipment in the fabrication lab.



Miodrag "Mickey" Micic, Sc.D., Ph.D., M.T.M., CSWP

About Prof. Miodrag "Mickey" Micic

Miodrag "Mickey" Micic, Sc.D., Ph.D., M.T.M., CSWP is a Professor of Engineering Design Technology and Plastics Manufacturing Technology and is current chair of Dept of Engineering Design Technology and Plastics Manufacturing Technology at Cerritos College University.

Before joining Cerritos College, Dr Micic was a Vice-President for Research and Development at MP Biomedicals LLC in Santa Ana, California where he still serves as a consultant to the President. Prof. Micic is published author of books, research and review articles and he is inventor with issued US patents. He used to work as a senior scientist at Veeco Instruments metrology division in Isla Vista, California, and as a post doctoral research associate at Pacific Northwest National Laboratory, a US DOE facility at Richland, WA. He holds Ph.D. and M.S. in chemistry from University of Miami, Coral Gables, FL; M.T.M. from Washington State University, WA; and Sc.D, and M.Sc. in physical chemistry, B.Sc /B.Ed. in physics and fundamentals of engineering from University of Belgrade, and B.Eng. from Polytechnical Academy of Belgrade. He is Certified SolidWorks Professional, Accredited SolidWorks Educator, Solidworks Research Partner, and he currently holds few adjunct positions and is a wellknown industry consultant. Dr. Micic is also a commercial pilot, certified flight instructor, and PADI Master scuba diver. Dr. Micic's webpage: **Website: <http://www.cerritos.edu/mm micic>** SAMPE chapter professionals, don't miss this great opportunity for networking with colleagues.

Special Presentation

TEACHING INNOVATIVE ENGINEERING DESIGN THINKING-101: A very Short Introduction By

Dr. Clement (Clem) Hiel, F-SAMPE

Innovative engineering design thinking is part of our daily lives, from the spoon we use to eat our breakfast cereal, the airplane we fly on a business trip, the car we drive to work in, and to the medical equipment that is used to save or to prolong our lives.

Therefore, the innovative engineering thinking process, that underpins our design practices, has formidable educational and commercial value. Additionally, as a general rule, the process is better learned through hands-on practice.

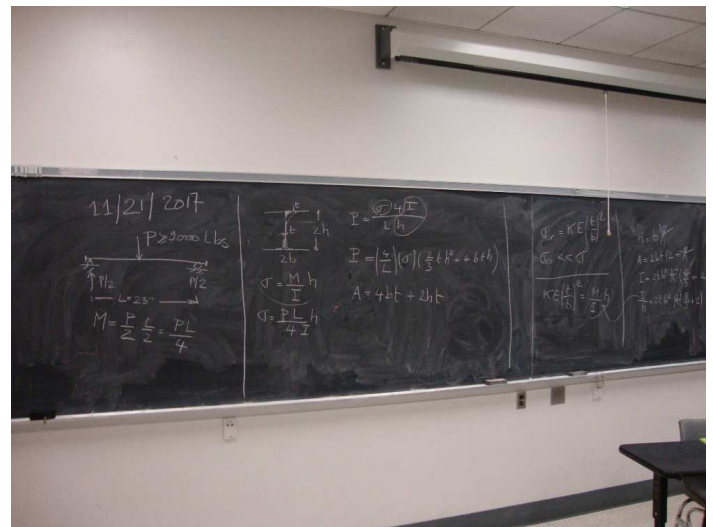
In this very short introduction, the presenter will give two examples that illustrate hands-on educational design practices and challenges, posed to students and practitioners worldwide. We will discuss how they approached the design problems, where they went off track, where they ignored fundamental engineering design principles and wasted valuable time, and what the results and the lessons-learned were that they finally achieved.

As a general conclusion we can state that a very small fraction of students and practitioners have innovative engineering design thinking in their DNA. The good news however is that everyone's innovative design thinking can be awakened through the hands-on and challenge driven teaching practices that this presentation is designed to illustrate.

About Dr. Clement (Clem) Hiel

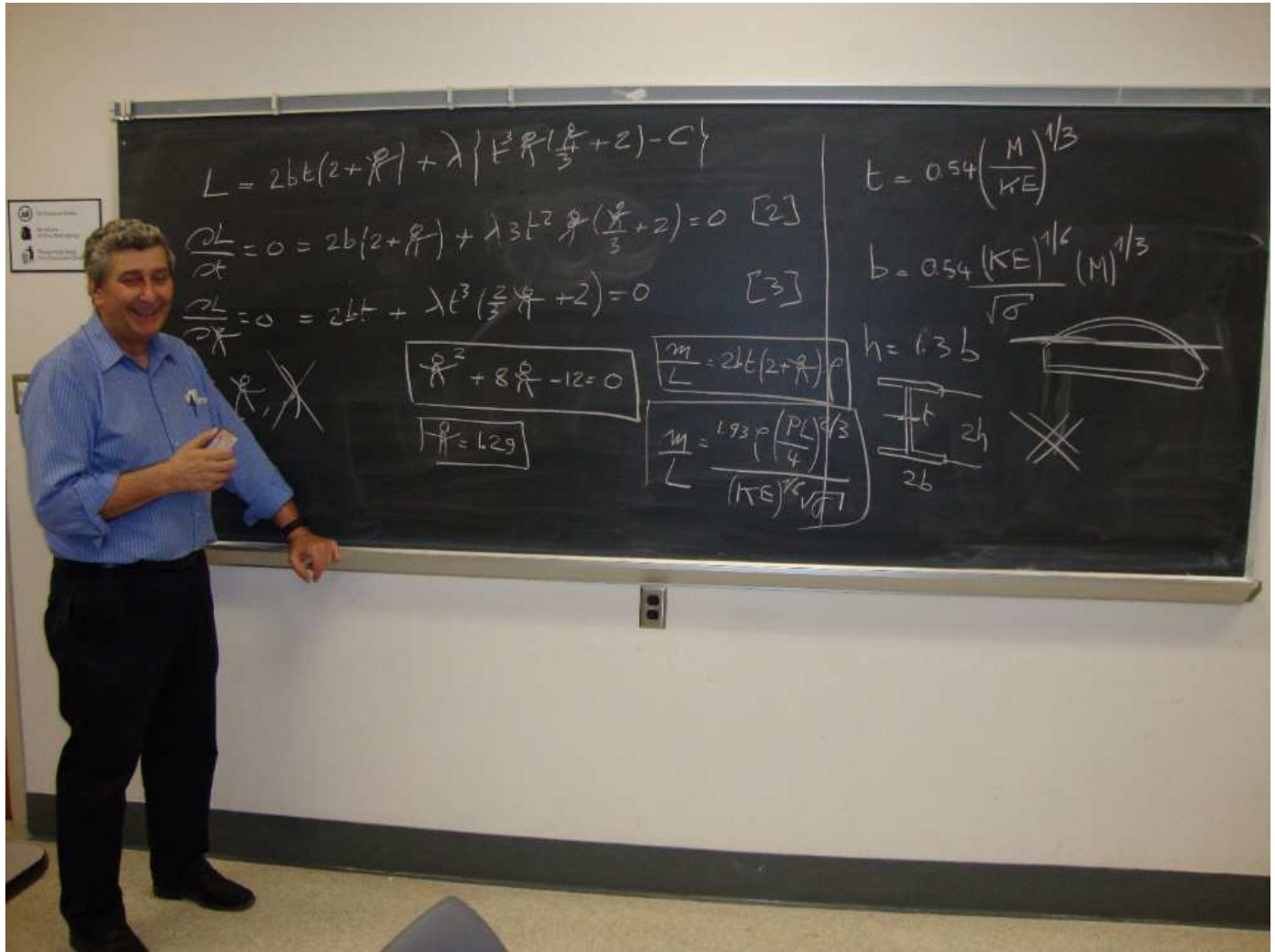
Dr. Clement (Clem) Hiel has been both an engineering Professor and a practitioner, on two continents, for nearly forty years. A native of Belgium, he has benefitted of a vocational education that started with toolmaking, technical drafting, and forging and welding at age 12 and ended with a Doctorate in Engineering at age 29.

Over the years, Dr. Hiel received various educational and engineering practice awards. This includes two world innovation awards, the ASCE Charles Pankow Award for innovation, and the SBIR 2016 Roland Tibbetts Award, which was presented at a White House ceremony. Very recently Dr. Hiel received a knighthood from King Phillip of Belgium for his achievements as an engineering practitioner and educator. Additionally, he has been elected a Fellow of SAMPE, for distinguished contributions in the fields of materials and processes.



Notice his key engineering design variable with explanation on next page

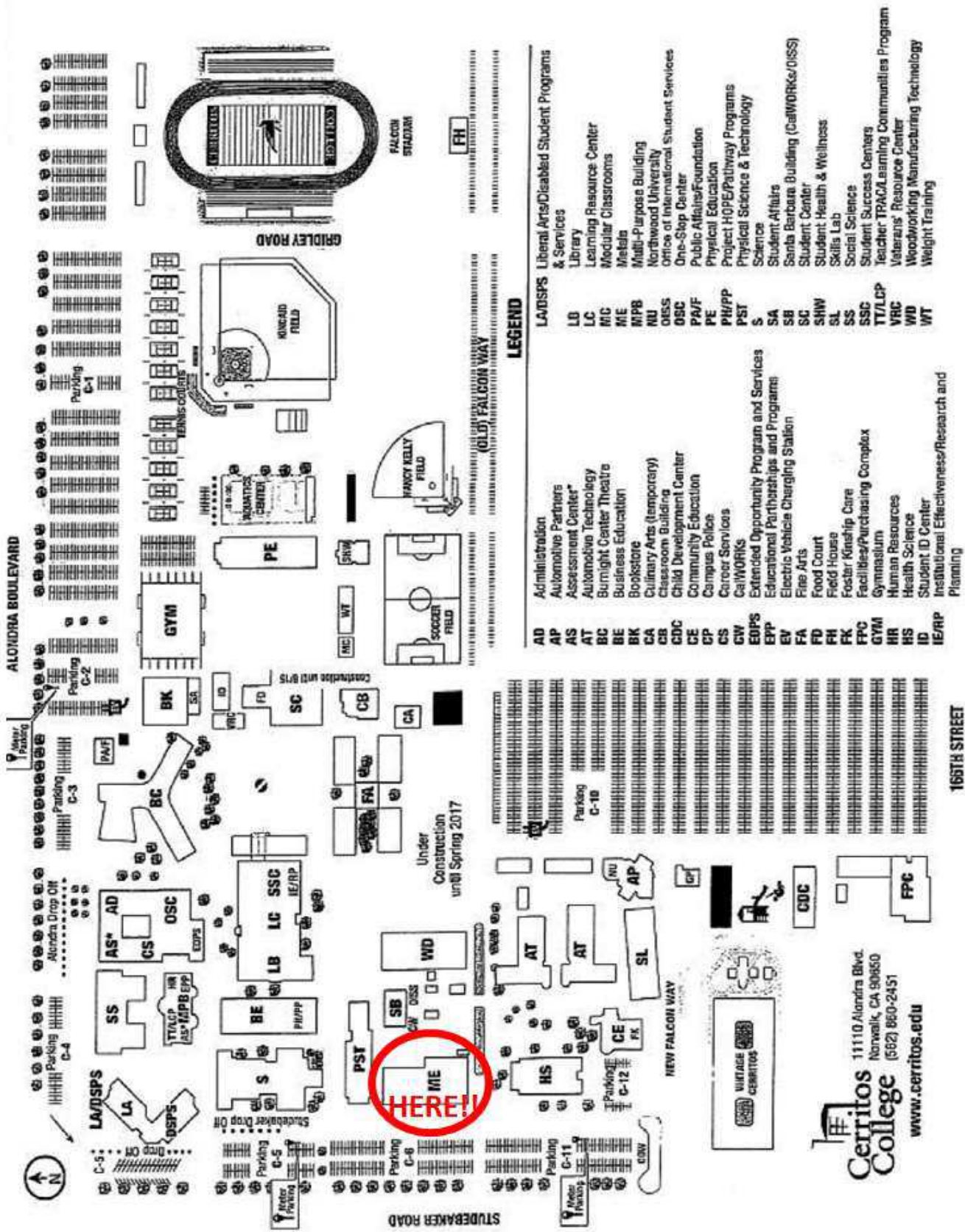




Prof. Clement Hiel while teaching students at UCLA to model the SAMPE Composite Bridge Beam Student Design Challenge as a Lagrange Constrained Optimization problem.

Notice his key engineering design variable  , on the blackboard, which he calls "Smurf."

Cerritos College Campus Map



Cerritos College Location



 11110 Alondra Blvd.
 Norwalk, CA 90850
 (562) 860-2451
www.cerritos.edu

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)
CAMX 2018	Dallas, TX	October 15 – 18, 2018
Cerritos College Plastics and Composites Presentation	Norwalk, CA	October 25, 2018
Manufacturing Problem Prevention Program (MP3)	The Aerospace Corporation (El Segundo, CA)	November 6, 2018
UCLA Composites Laboratory Presentation and Tour	Los angeles, CA	November 15, 2018

SAMPE-Los Angeles Sponsors

<u>Company</u>	<u>Contact</u>	<u>Phone</u>	<u>E-Mail</u>
Airtech International	Jeff Dahlgren	(714) 899 8100	jldahlgren@airtechintl.com
Aligned Vision	Scott Blake	(978) 244-1166	Sb@assemblyguide.com
Element Materials Technology	John Moylan	(818) 247 4106	John.Moylan@element.com
Fives Machining Systems, Inc.	Bridget Spears	(859) 534 4537	Bridget.Spears@FIVESGROUP.COM
Hitco Carbon Composites	Les Cohen	(310) 970 5409	lescohen@aol.com
Janicki Industries	John Janicki	(360)-814-1776	jjanicki@janicki.com
Keyence Corporation	Manny Lopez	(888) 539-3623	MLopez@keyence.com
Laser Technology, Inc.	John Newman	(610) 631 5043	Jwnewman50@aol.com
Maverix Solutions, Inc.	Vi Doan	(714) 501 6383	vdoan@maverixsolutions.com
Pacific Testing Laboratories	Hans Shin	(661) 257 1437	hshin@pacifictesting.com
Plataine Inc.	Avner BenBassat Avital Dotan		Avner.BenBassat@plataine.com Avital.Dotan@plataine.com
PMIC	Allen Howard Darrell Oakes	(541) 753 0607	AllenHoward@pmiclab.com darrelloakes@pmiclab.com
SME	Dave Morton	(313) 425-3142	dmorton@sme.org
TA Instruments	Steve Hall	(302) 521 5778	SHall@tainstruments.com
TenCate Advanced Composites USA	Eric Howard Stacy Biel	(831) 607 3851 (707) 758 4368	E.Howard@TCAC-USA.com S.Biel@TCAC-USA.com
Thermal Wave Imaging	Steve Shepard Alan Nusbaum	(248) 414 3730 (248) 417 5882	Sshepard@thermalwave.com alannusbaum@thermalwave.com
Toray Composites (America), Inc.	Nate Monroe	(253) 320 8958	nmonroe@toraytca.com

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 750 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

Howard.A.Katzman@aero.org