*Society for the Advancement of Material and Process Engineering*

# SAMPE
# Los Angeles Chapter
# News and Information

**October 2021**

## ADVANCED MATERIALS AT CERRITOS COLLEGE
## Presented by Dr. Miodrag "Mickey" Micic
## *October 26, 2021 (Tuesday) at 6:00 PM*


**Date:**

10-26-21 (Tuesday)

**Time:**

6:00 PM

**Reservations:**

Register for the Zoom presentation.

**Registration link at:**

You are invited to a Zoom meeting.
When: Oct 26, 2021 06:00 PM Pacific Time (US and Canada)

Register in advance for this meeting:

https://us02web.zoom.us/meeting/register/tZIvd-mhqzsvGdc9rJcHokXZpr8Rn9f-4VgY

After registering, you will receive a confirmation email containing information about joining the meeting.

## 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.

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/mmicic**

SAMPE chapter professionals, don't miss this great opportunity for networking with colleagues.

## Cerritos College Students Help Set Guinness world Record

Students of the New Product Development Program participated in a print-a-thon event held by a Costa Mesa based company, AirWolf3D, in which the students helped print 201 prosthetic hands and set a Guinness World record.

AirWolf3D held the charity event to provide those in need of prosthetic arms with 3D printed ones.

The Guinness World record set by the students was having the most 3D printing machines working in the same room.

Department for Engineering Design and Technology Dr. Miodrag Micic, also known as “Mickey,” gave guidance to the students on how to program and calibrate the machines.

“They [AirWolf3D] actually set up the event to try to break the world record for the largest number of 3D printers working on the same object,” Micic said.

“It was also for a good cause,” he continued, “because then the arms were donated to the organization who distributes them to the people in need.”

Micic and his students brought six 3D printers to the event to participate.

# Schedule of Upcoming Events

| Event | Presented From | Date |
|---|---|---|
| Advanced Materials | Cerritos College | October 26, 2021 |
| Measurment Science Symposium | Anaheim, CA | November 15 – 18, 2021 |
| Westec and AeroDef | Long Beach, CA | November 16 – 18, 2021 |
| Materials Innovaton & Advanced Technical Leadership Form | Huntington Beach, CA | January 26 – 27, 2022 |
| Del Mar Electronics & Manufacturing Show | Del Mar, CA | May 4- 5, 2022 (New Date) |
| CAMX | Anaheim, CA | October 10 -13, 2022 |

# 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

| Company | Contact | Phone | E-Mail |
|---|---|---|---|
| Advanced Technology International | Nick Melillo | 843-760-3228 | nick.melillo@ati.org |
| Airtech International | Jeff Dahlgren | 714 899-8100 | jldahlgren@airtechintl.com |
| Aligned Vision | Scott Blake | 978 244-1166 | Sb@assemblyguide.com |
| CMS North America | Todd Hammer | 714-403-3755 | thammer@cmsna.com |
| Element Materials Technology | John Moylan | 818 247 4106 | John.Moylan@element.com |
| Hitco Carbon Composites | Les Cohen | 310 970-5409 | lescohen@aol.com |
| Laser Technology, Inc. | John Newman | 610 631-5043 x14 | Jwnewman50@aol.com |
| Plataine Inc. | Avner BenBassat<br>Avital Dotan | 626 486-2629 | Avner.BenBassat@plataine.com<br>Avital.Dotan@plataine.com |
| PMIC | Darrell Oakes | 541 753-0607 | darrelloakes@pmiclab.com |
| Revchem Composites | Randy Arrowsmith | 909-316-6613<br>909-600-8296 (Cell) | RArrowsmith@revchem.com |
| SAMPE Los Angeles Chapter | Clem Hiel | 310 650-6938 | Hiel.Clement@gmail.com |
| Shimadzu | Chris Macy | 800 477-1227 x1859 | cjmacey@SHIMADZU.com |
| SME | Dave Morton | 313 425-3142 | dmorton@sme.org |
| Thermal Wave Imaging | Steve Shepard<br>Alan Nusbaum | 248 414-3730 | Sshepard@thermalwave.com<br>alannusbaum@thermalwave.com |
| Toray Advanced Composites USA | Eric Howard | 831 601-3851 | e.howard@toraytac-usa.com |

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

*ALL NEW!*

# Materials Innovation & Advanced Technology Leadership Forum

*Towards Industrialization of Composites Manufacturing*


**SPONSORSHIPS AVAILABLE!** Contact materialsforum@sampe.org

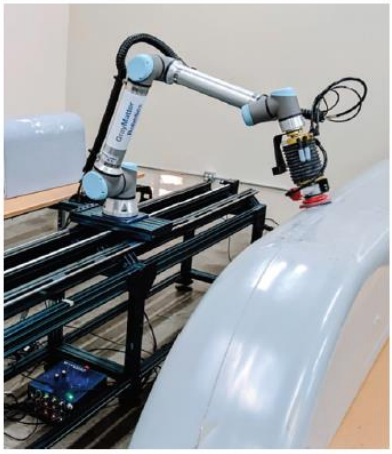
## PLAN NOW TO ATTEND

**WEDNESDAY, JANUARY 26, 2022**

| TIME | SESSION | | |
|---|---|---|---|
| 9:00am - 12:00pm | GrayMatter Robotics Tour - Limited to 50 registrants | | |
| 1:00 - 2:30pm | Track 1 | Short Course | **Advances and Challenges in Automated Fiber Placement (AFP),** by Ramy Harik, University of South Carolina and Sayata Ghose, The Boeing Company |
| 2:30 - 4:00pm | | | **Pultrusion Technology, Commercialization and Industrialization**, by Clement Hiel, Composites Support & Solutions, Inc. |
| 1:00 - 2:30pm | Track 2 | Short Course | **Non-Destructive Evaluation (NDE) Integration Into Modern Aerospace Manufacturing**, by David Forsyth, TRI Austin |
| 2:30 - 4:00pm | | | **Thermoplastic Composites: Opportunities and Challenges**, by David Leach, ATC Manufacturing |
| 1:00 - 2:30pm | Track 3 | Market Overview | **Overview of Additive Manufacturing (AM) Market: State of the Art, Current Challenges and Opportunities, and Path Forward,** by Ahmed Arabi Hassen, Peeyush Nandwana and Vidya Kishore, Oak Ridge National Laboratory |
| 2:30 - 4:00pm | | | **Market Overview of eVTOL and Urban/Advanced Air Mobility (UAM/AAM),** by Johnny T. Doo, Devonshire Holdings, Inc. |
| 4:00 - 6:00pm | Welcome Reception | | |

### ROBOTICS TOUR

See for yourself how GrayMatter Robotics makes AI-Brains for robots by taking commercially available robots and connecting them to artificial intelligence software, creating smart robotic assistants for high-mix surface treatment applications. **Tour attendance is limited to 50 registrants, register today.** Visit **materialsinnovationforum.org/tour.**



### VENUE & LOCATION — HUNTINGTON BEACH, CA

The forum will be held at the **Kimpton Shorebreak Resort**, 500 Pacific Coast Highway, Huntington Beach, CA 92648. Book your room at **materialsinnovationforum.org/hotel-registration.** Huntington Beach is located in Southern California, within driving distance to numerous manufacturing companies and offers a plethora of activities for visitors — live entertainment, iconic bonfire pits, beautiful sandy beaches, and oceanfront dining year-round.

**SEATS ARE LIMITED. REGISTER AT: materialsinnovationforum.org**

Below is the link to the Jan 2022 Forum registration page:

https://365.sampe.org/networks/events/9917

# FORUM SPEAKERS & PRESENTATIONS

## THURSDAY, JANUARY 27, 2022

### SESSION 1 — CHALLENGES

8:10am - 9:40am

- Air Mobility - Economy of Scale, *John Geriguis and Nobuya Kawamura*
- Recycling and Circular Economy of Automotive Composite Parts, *Hendrik Mainka*
- Composite Material Opportunities and Challenges for Air Mobility and Unmanned Systems, *Robert Yancey*

**John Geriguis,** Joby Aviation

**Nobuya Kawamura,** Toyota Motor North America, Inc.

**Hendrik Mainka,** Volkswagen Group of America, Inc.

**Robert Yancey,** Hexcel

### SESSION 2 — SYNERGIES

10:00am - 12:00pm

- Synergy of Aerospace and Wind Energy Composites Technologies, *Wendy Lin*
- Pultrusion with Design Freedom
- Advances in Manufacturing Carbon-Carbon Composites for High Temperature Applications, *Matthew Parkinson*
- Part Throughput is one of the Most Limiting Factors When Working in the Composite Industry, *Adam Rawlett*
- Alternate Methods For Increasing Composite Part Throughput, *Sam Tollefsen*

**Wendy Lin,** GE Renewable Energy

**Matthew Parkinson,** BASF Performance Materials

**Adam Rawlett,** US Army Research Laboratory

**Sam Tollefsen,** Toray Composite Materials America, Inc.

### SESSION 3 — ADVANCEMENTS

1:30 pm - 3:00pm

- Rapid Large-Scale Structural Thermoplastic Parts, *Michael Assadi*
- NCC's Digital for Composites (D4C) – From Right First Time to Right Every Time, *Enrique Garcia*
- Aerospace Integral Structures by LRI Based in Automated Lamination of Fabrics with ADMP, *Peio Olaskoaga*

**Michael Assadi,** Electroimpact Inc.

**Enrique Garcia,** National Composites Centre

**Peio Olaskoaga,** IDEKO Research Center

### SESSION 4 — SIMULATION/SOFTWARE CONTRIBUTORS

3:30 pm - 5:20pm

- AI-Based Production Scheduling And Process Optimization Drive Manufacturing Agility And Efficiencies, *Avner Ben-Bassat*
- How Credible Simulation Significantly Reduces Product Development Time and Cost, *Javad Fatemi*
- Software Platform Solutions for Composites Design, Manufacturing and Simulation 4.0, *William Ramroth*
- Efficient Manufacturing for 21st Century Composite Structures, *Alex Rubin*

**Avner Ben-Bassat,** Plataine

**Javad Fatemi,** Airbus Defence and Space

**William Ramroth,** Dassault Systemes

**Alex Rubin,** The Boeing Company

Below is the link to the Jan 2022 Forum registration page:

https://365.sampe.org/networks/events/9917