

Please note: The April meeting of NJ SAMPE has been CANCELED due to complications of Coronavirus.

BREAKING NEWS

Our Student Night, which was originally planned for this April meeting, will be postponed to the Fall. Also, we are still anticipating a meeting on May 14 and our Additive Manufacturing Symposium at Rutgers on June 19. However, the situation is fluid. We will keep you informed.

Finally, the annual North American SAMPE Symposium and Exhibition, scheduled for May 4-7 in Seattle, is still on-track, at least as of this writing.

NJ SAMPE will expand its STEM program support with financial assistance to the eBorg Robotics team

eBorg Robotics is a student-led robotics team and 501(c)(3) non-profit organization based in East Hanover, NJ. This group of 8 students participates in competitions organized by FIRST® (For Inspiration and Recognition of Science and Technology). FIRST's mission is to inspire young people to be leaders and innovators in by engaging them in exciting programs that build science, technology, engineering and math (STEM) skills, and foster well-rounded life capabilities such as self-confidence, communication, and leadership.

At the FIRST Pennsylvania State Championships held on March 1, 2020 eBorg Robotics won the Inspire Award, the most prestigious award given to the overall model team exemplifying both technical and non-technical excellence. Additionally, their robust and efficient robot helped lead their alliance to victory. With these achievements, they secured a spot at the FIRST Tech Challenge World Championship to be held in Detroit, MI this April. Only 150 out of approximately 8,000 teams are chosen to compete at this elite level.

In accordance with the FIRST mission statement, eBorg Robotics strives to inspire and encourage students across the globe to pursue STEM.



eBORG ROBOTICS

This season, the team has had a huge impact on their local community by conducting STEM events for hundreds of underprivileged kids, Girl Scouts, and students with special needs. Through these initiatives, eBorg Robotics aims to promote teamwork, ingenuity, and collaboration while eliminating the gender gap in the STEM field. They also actively mentor younger teams that participate in LEGO® robotics competitions.

The most heartwarming outreach of eBorg Robotics this season was a two-

week workshop at an all-girls home in rural Tanzania. These 25 girls come from either physically/emotionally abusive or neglecting households. The team donated LEGO EV3 kits and designed a robust curriculum to introduce the students to the concept of robotics. eBorg Robotics continues to support this curriculum, which is now integrated into the school system. They have implemented similar curriculums in schools in India as well, benefiting several hundred students.

The eBorg Robotics team hopes to continue inspiring more children in their local and global communities to learn about robotics and pursue careers in STEM. There are several ways for you to help this team accomplish their mission.

Options include participating in their next outreach, providing technical mentorship, becoming a sponsor, or donating to them at [GoFundMe](https://www.gofundme.com/eBorgRobotics). Please do not hesitate to reach out to the team at contact@eborgrobotics.org or visit <https://eborgrobotics.org>.



2019 – 2020 Meeting Schedule

September 12, 2019 – Giuseppe Palmese,
Drexel University

September 23-26, 2019 – CAMX, Anaheim CA

October 3, 2019 – Joe Abrantes, Evonik Corp.

November 7, 2019 – Yuebin Guo, Rutgers

December 5, 2019 – John Weber, Gentex

February 6, 2020 – Erik Thostenson, Univ
Delaware

March 5, 2020 – Howard Kliger

April 2, 2020 – Students Night (at Rutgers)
Postponed

May 14, 2020 – TBD

May 4-7, 2020– SAMPE 2020, Seattle WA

June 19, 2020 – 2nd Annual NJ Additive
Manufacturing Symposium, at Rutgers Weeks
Engineering Building

September 17, 2020 - NJ SAMPE golf outing
at Picatinny Arsenal.

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Past Chairs, SAMPE Fellows and Senior Honorary Members

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1978 – 1979 William J. Russell
1979 – 1980 Michael Michno
1980 – 1981 Fred H. Ancker
1981 – 1982 Natalia Chujko
1982 – 1983 Robert J. Narsavage
1983 – 1984 Richard W. Reiter
1984 – 1985 Howard S. Kliger
1985 – 1986 John Burlage
1986 – 1987 John F. Osterndorf
1987 – 1988 Thomas J. Green
1988 – 1989 Harry S. Katz
1989 – 1990 Benjamin M. Rasmussen
1990 – 1991 Harry Tenney
1991 – 1993 Louis A. Pilato
1993 – 1994 John Burlage
1994 – 1995 Richard A. Walther
1995 – 1996 Frans van Antwerpen
1996 – 1997 Kathleen A. Froelich
1997 – 1998 Gail D. DiSalvo
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2019 - Russell Caspe

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SAMPE Best Chapter Award Winner:

1990, 1991, 1992, 1993, 1995, 1996, 1997, 1998,
1999, 2000, 2001

SAMPE Chapter Service Excellence Award Winner:

2002, 2003, 2004, 2005, 2006 (award retired
after 2006)

SAMPE Chapter Sponsored Conferences:

ISSE – 1990 (Anaheim), 1994 (Anaheim),
1996 (Anaheim), 1998 (Anaheim), 2002 (Long Beach)

ISTC – 1981 (Mt. Pocono), 1989 (Atlantic City),
2006 (Dallas), 2009 (Wichita), 2012 (Charleston)

ISEC – 1994 (Parsippany)

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Sponsor of the Month: Airtech Advanced Materials Group

47 years ago, Airtech founder William “Bill” Dahlgren, an inspired engineer, started the business with four people in San Bernardino, California. Bill is still very much active in the family business.

His main goal of was to create a “one stop shop” and to manufacture vacuum bagging and composite tooling materials for the fiberglass and graphite parts industry. With a dream in mind, persistency, and lots of hard work, the company grew to over 800 employees, manufacturing in five different locations – Huntington Beach, CA (corporate headquarters); Springfield, TN; Differdange, Luxembourg; Chadderton ,England; and Tianjin, China.

Airtech is still privately owned and operated, and dominates the worldwide vacuum bagging market. Airtech President/CEO Jeff Dahlgren said, “From this humble beginning, we have grown into a world class company and leaders in

the field of composites. A special Thank you to our loyal employees, customers, and partners.” Airtech continues to innovate and meet the demands of its growing markets. Airtech is an ISO 9001:2008/AS9100 RevC Certified Company.

For more information on our new LARGE SCALE 3D PRINTING capability, see next page.

For more information, contact:

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Sponsor of the Month: Airtech Advanced Materials Group

September 24, 2019: Airtech has invested in new technology in the form of a Large Scale Additive Manufacturing (LSAM) 3D printing machine with integrated machining capability. The LSAM relies on thermoplastic extrusion, a core competency of Airtech with nearly 50 years of experience to build on. The LSAM can take tooling from conception to the shop floor significantly faster than conventional methods. Additive manufacturing uses almost the exact amount of material required, resulting in less touch labor and shorter lead times. Airtech believes that additive manufacturing is a game changer that will change the tooling manufacturing world, especially in the aerospace industry. Large-scale tooling in the form of trim fixtures, holding fixtures, and layup molds can be designed, tooled, and built faster without compromising on quality.

Airtech has invested in a 60,000 ft² (5,574 m²) expansion at its Custom Engineered Products division in Springfield, TN. "Airtech has been an

extrusion company for over 45 years and is ready to take the next step into extrusion involving additive manufacturing, 3-D printing. This type of extrusion is similar to what we are doing now with films but will be used to create new tooling with internal heating (OOA) on a large scale, up to 40 ft long. We are developing new technologies to help our partners reduce cost and increase productivity," said Jeff Dahlgren, President/CEO of Airtech Advanced Materials Group.

"We are excited to be able to offer numerous new additive manufacturing services and solutions to our customers to further solidify our stance as a leading technical partner in composites," said Gregory Haye, Director of Additive Manufacturing, Airtech Advanced Materials Group.

