



# SAMPE FOUNDATION

The charitable fund of SAMPE

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## Mission Statement

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Instilling an interest and passion for advanced material and process engineering in the next generation of leaders is a vital part of the foundation's mission. In order to realize this vision, the SAMPE Foundation promotes education and innovation in the fields of materials and processes on a global basis, particularly at the kindergarten through the 12th-grade level. The SAMPE Foundation provides grants to stimulate an interest in and provide access to the tools required for future technological growth in science, technology, engineering and math (STEM).

**PLEASE NOTE: THE DEADLINE FOR SUBMISSION OF 2022 NOMINATIONS FOR SAMPE FOUNDATION GRANTS IS FAST APPROACHING: April 30, 2022**

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The SAMPE Foundation has a two-pronged approach to supporting K-12 STEM education. The first approach is by supporting leading educators in the STEM field, via the William Dahlgren Teacher of Excellence Award. The second approach involves providing direct support to worthwhile STEM programs around the world, via our Special Awards program.

## 1. William Dahlgren Teacher of Excellence Award

The William Dahlgren Award recognizes outstanding K-12 teachers for inspiring students in math, science and engineering fields, particularly classes directed towards learning the field of plastics and general entrepreneurship activities/efforts. The teacher is nominated by an administrator who has knowledge of the teacher’s direct work product in the classroom in STEM. The teacher receives a Certificate of accomplish and a monetary Honorarium from the Foundation.

This spring The SAMPE Foundation approved two Dahlgren Awards to teachers across the country.

<b>Lee Hammill-Mirsky, PhD.</b>	<b>Marlborough School</b>	<b>CA</b>
<b>Alica Artis</b>	<b>GALA</b>	<b>CA</b>

## 2. Special Grant Awards Program

As a part of the SAMPE Foundation’s outreach efforts, the board is now accepting grant proposals for programs and projects that will positively impact K - 12 STEM-related learning around the world. These grants are carefully reviewed by the foundation's board, with the primary goal of understanding the clear benefits of the proposed STEM program. The Foundation presented three grants for STEM programs.

1. Sanders Middle School
2. Cactus High School
3. STEM Teachers NYC

### Sanders Middle School

The Sanders Unified School District is in Sanders, Arizona on the Navajo Reservation and includes 3 schools that serve a thousand students, ranging from grades Pre-K to 12. The schools that are in our district include Sanders Elementary School, Sanders Middle School, and Valley High School.

This small settlement on the Rio Puerco of the west sits some 42 miles west of Gallup, New Mexico, at the junction of I-40 and U.S. Highway 191. Sanders' Navajo name is Lichii Deez ahi, translated to English meaning, "Horizontal Red Point".

Ms. Lily Lavapiez, Middle School teacher, to run a virtual classroom submitted a Grant Proposal for 8 HP ProDesk 400 G7 Small Form Factor PCs. The Navajo school was awarded \$6500 to purchase the computer by the SAMPE Foundation. This has made a major impact for the Sanders MS.

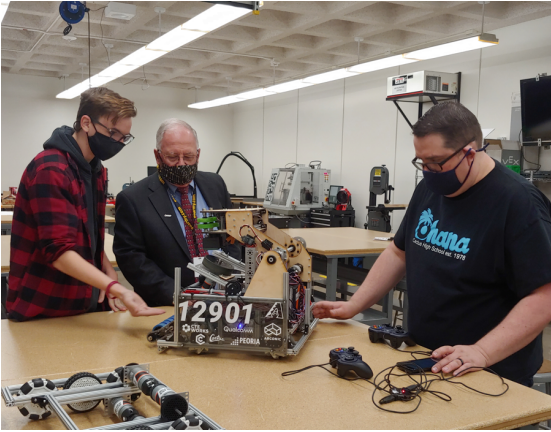


Lily Lavapiez (middle) with Sanders Administrators

Ms. Lavapiez with faculty team.

## Cactus High School

Cactus High School of Glendale, AZ has a robotic program that the SAMPE Foundation approved a grant request for \$6500 to support the STEM robotic program. This program is open to students from the middle school and high school. This has allowed an expansion of the over all programs.



Student, J. Ingalls (SAMPE Foundation), and teacher A. Shroyer examining one of the competition robot.



A. Shroyer (faculty), J. Ingalls (SAMPE Foundation) and a STEM student examine the new laptop and CNC router purchased with the SAMPE Foundation funding.

## STEM Teachers NYC

Established in 2011, STEMteachersNYC has built a highly innovative organization which continues to blaze a trail for teacher-led professional development and for an integrated model of teacher-leader growth. We have become a well-known leader in New York City and the Tri-State area, an organization teachers, principals and administrators turn to for high quality professional development in the sciences, engineering, and applied math, and one in which funders concerned with STEM education invest. The result was 12 strong, interactive Summer STEM Institute workshops in July and August, which attracted 181 attendees, 81 of whom teach in Title I schools. This program was supported via a SAMPE Foundation Grant Funding.

*"Sometimes I feel like other workshops don't apply to my population of students. This was right on the pulse."*



*"I loved that the presenters are current teachers. They know what's realistic, they understand the restraints, and they have a real understanding of the different grade levels. And our four presenters were especially fantastic: creative, supportive, helpful, knowledgeable..."*



### 3. Key Supporter Profile to SAMPE Foundation

Each Newsletter we will profile a major contributor or member of the SAMPE Foundation Board.

#### LESLIE COHEN, PHD



Les is world renowned for his work in advanced composite materials. In his 50+ year career and counting, he has had major impact on how the aerospace industrial base manufactures composites. He joined McDonnell Douglas in the late 1960s. While at McDonnell, he held positions of increasing responsibility in Technology Operations and Business Development. As a senior director, he oversaw their business development in the Russian Federation. Les has worked on applying composites to a wide range of aerospace structures including ICBMs and re-entry vehicles, the OH-58 helicopter, the Reagan-era Strategic Defense Initiative.

Dr. Cohen joined HITCO in 2001. He served for 31 years at McDonnell Douglas where he held positions of increasing responsibility in Technology Operations and Business Development. As a Senior Director, he directed all Business Development for MDAC in the Russian Federation. He has published over 40 papers on Advanced Composite design and development, is a lecturer in Advanced Composites and has been awarded the USSR Gold Medal for Science and Technology, and a foreign member of the Russian Academy of Sciences, Judd Hall Award for Manufacturing of Composites and SAMPE Fellow. He is a recipient of the prestigious George Lubin Award for excellence in composites from SAMPE. He holds B.S., M.S., and Ph D. degrees from Carnegie Mellon University, and a Fulbright Post-Doctoral at the Technion Israel Institute of Technology specializing in Structures and Materials. He received the Gold Medal for composites from the University of Delaware.

Throughout his career, Les has been a strong champion of SAMPE. He has been the general chairman of many North American SAMPE conferences. In addition, he serves on the SAMPE Europe Scientific Committee. Les is most proud of his involvement of the launch of the SAMPE Foundation in 2006 whose focus is K-12 STEM education in advanced materials.

#### *HOW YOU CAN HELP?*

*You can help STEM programs by donating to the SAMPE Foundation. The SAMPE Foundation is a 501.3c tax exempt organization. For more information paste the link to your browser. Help our mission for STEM Education.*

Click the link to make a donation:

<https://www.nasampe.org/donations/donate.asp?id=12510>