



DASEF STEAM Symposium Grades 5 – 12



www.dasef.org (302) 689-5003

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FREE EVENT!

You are invited to a special DASEF Event! March 2nd, 2024 9:00am – 3:00pm

Please register in advance for this event: [Click here to Register](#). (Up to 50 participants)

After registering, you will receive a confirmation email.

The DASEF Mission: to inspire and educate the people of the Delaware Valley in learning about Science, Space, Technology, Engineering, Earth's environment, and Mathematics using our academies, school field trips and outreach, symposiums, professional development and events and the resources of DASEF's Environmental Outpost.

Sponsored by DASEF & Delaware NASA Space Grant Consortium

[Learn about exciting careers!](#) [Ask Questions!](#) [Get inspired!](#)

WHO: Students in Grades 5 – 12 (up to 50 participants)

WHAT: STEAM Symposium

WHERE: Clayton Hall, University of Delaware

WHEN: Saturday, March 2nd

TIME: 9:00am – 3:00pm [Box Lunch is included.](#)

WHY: To inspire and motivate interest in STEAM careers

Symposium Agenda:

9:00 am DASEF check in

9:30 am **Opening: Dr. Stephanie Wright**

9:40 am **Keynote Speaker: David McGrath**



David graduated from Purdue in 1983 and 1984 with a BS and MS in Aeronautics and Astronautics respectively. He has worked at the Elkton Division of Northrop Grumman (originally Thiokol) since November 1984. He has held a variety of positions in his tenure including: analyst, project engineer, chief engineer, principal investigator, program manager, director, and now Senior Northrop Grumman Fellow on space launch and upper stage motors, tactical boosters and gas generators, and missile defense propulsion efforts. He is a holder of four patents and is an AIAA Fellow and has authored over 50 papers for the JANNAF and AIAA communities.



Session - Panel Discussion

DuPont employees talk about their careers and will answer questions if time:

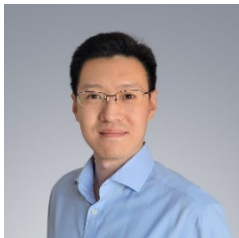
10:40 am

Short Break

10:50 am

Panel discussion begins – 10-minute presentations.

Zhenhua Cui



Zhenhua Cui joined DuPont in 2022 as a Lead Data Scientist in Spark Digital team. His focus is helping DuPont businesses to uncover and deliver value using digital tools. He collaborates remotely around the globe and supports mainly operation and manufacturing teams to improve efficiency through data science solutions like statistical modeling and machine learning. He has a PhD degree in Polymer Science from University of Connecticut. Before joining DuPont, he worked for Heraeus company and Hershey company. Outside of work, Zhenhua's hobbies include auto racing (Formula 1) and wine tasting.

El'Vonda Jacobs



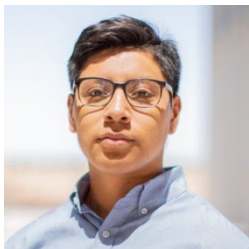
El'Vonda Jacobs joined DuPont in 2023 as a Senior Quality Engineer, where she is bringing her knowledge in product quality and supplier quality to DuPont's Vespel® products. El'Vonda works closely with Operations, Manufacturing Technology, and Supply Chain departments for New Product Commercialization. El'Vonda also works with customers to make sure DuPont is meeting their specifications and requirements. Outside of work, El'Vonda enjoys hiking, concerts, visiting breweries, and playing boardgames. El'Vonda has a Bachelor's of Science degree in Forensic Science (chemistry) from Seton Hill University, and a Master's of Business Administration from Regis University.

Grace Lilje



Grace joined DuPont in 2021 as an Associate Investigator with the Vespel® R&D team. Her focus is on tribology, the study of wear and friction, where she performs testing and analysis. She works closely with the R&D team and applications development to solve customer needs. In her free time, Grace enjoys a variety of hobbies including pickleball, softball, running, hiking, skiing, and baking. Grace holds a bachelor's degree in mechanical engineering from Gonzaga University. LinkedIn profile [here](#).

Miguel Flores Martinez



Miguel joined DuPont in 2023 as a GOLD (Growth Opportunities Leading in Diversity) Graduate Student Intern with Industrial Solutions. Over that summer he was able to help in an ongoing sustainability effort in finding more cost-effective recyclable materials. He transitioned to the CMPT business as a Co-Op Intern, after that summer, to support the development of a next generation of CMP Pads. Before DuPont, from 2020-2022, Miguel worked for Huntsman, LLC in Los Angeles as a Chemical Quality Control Technician, where he tested polyurethane and epoxide adhesives. In his free time, Miguel enjoys traveling to different cities, learning new recipes, and spending time with friends. Miguel attended the University of California, Merced where he studied Chemical Science. Currently, he is finishing a Master's in Polymer and Coating Science with the California State University, San Luis Obispo and hopes to finish this June. LinkedIn profile [here](#).

- 11:30 am **Q & A**
- 11:40 am **Lunch** - included for all attendees
- 12:30 pm **Group A:** STEAM Activities: Scribblebots Introduction and Construction- **Mary Koster & Marc Leonetti**
- Group B:** Origami Science - **AdeBanjo Oriade** Assistant Professor in the Physics and Astronomy Department - Dupont Interdisciplinary Science Learning Laboratories (DISLL).
- 1:30 pm **Group A:** Origami Science - **AdeBanjo Oriade** Assistant Professor in the Physics and Astronomy Department - Dupont Interdisciplinary Science Learning Laboratories (DISLL).
- Group B:** STEAM Activities: - Scribblebots Introduction and Construction **Mary Koster & Marc Leonetti**
- 2:50 pm **Closing: Dr. Stephanie Wright**

To learn more about NASA STEM Engagement: <https://www.nasa.gov/stem>
Any questions? lynneb@dasef.org www.dasef.org (302) 834-1978