

## 27th Annual Micro-Electric Vehicle Competition

Wednesday, May 8, 2024

Yazaki North America, Inc.

6801 Haggerty Rd.

Canton, Michigan 48187

SAE Detroit Section would like to extend an invitation for local high school students to participate in the 27th Annual Micro-Electric Vehicle Competition. The competition will take place on Wednesday, May 8, 2024 at Yazaki North America, Inc. in Canton. Pizza and beverages will be provided for all students and guests. Registration will begin at 4:00 p.m., with the competition beginning promptly at 5:00 p.m.

The first objective of the competition is to design and build a dry cell powered vehicle (AA battery supplied) to race up a fixed incline while pulling a weighted trailer (supplied) to the top of a hill. The second objective is to be the first vehicle to pass the finish line with trailer in tow.

**NOTE: Maximum of (6) vehicles per school can enter the competition with up to (3) students per vehicle for capacitor and non-capacitor class.**

**Overall** – Top three schools with the highest score in both the design and performance competition will receive trophies and cash awards.

**First Place \$2,000    Second Place \$1,500    Third Place \$1,000**

**Design** – Trophies and cash awards will be given to the top three teams based on overall design and engineering concepts used in their written paper and oral presentation.

**First Place \$200    Second Place \$150    Third Place \$100**

**Performance** – The top three teams in each category of the performance competition will receive trophies and cash awards.

**Capacitor:            First Place \$200    Second Place \$150    Third Place \$100**

**Non-Capacitor:    First Place \$200    Second Place \$150    Third Place \$100**

**Rookie Award (\$500)** – This award is for schools who are participating in this competition for the first time.

Enclosed is a complete set of rules and material specifications. For rules or material questions, please email Mike Arnott at [Mike\\_L\\_Arnott@hotmail.com](mailto:Mike_L_Arnott@hotmail.com).

If you are interested in participating, please fill out the registration form by Wednesday, April 17, 2024. Design Competition papers due then too.

For registration questions, email [stephanie.alexander@sae-detroit.org](mailto:stephanie.alexander@sae-detroit.org) or call (248) 324-4445 ext. 3.

# Micro-Electric Vehicle Competition Registration Form

## Wednesday, May 8, 2024

Yazaki North America, Inc.  
6801 Haggerty Rd., Canton, MI 48187

**Registration and papers must be submitted by – Thursday, April 17, 2024**

School:		
Teacher name:		
Teacher phone:	Cell:	
Email address:		
Address:		
City:	State:	Zip:
Has your school participated in this competition before? Yes_____ No_____		
Total number of vehicles <b>(limit 6 per school):</b>		
Total number of team members <b>(limit 3 per vehicle – both capacitors and non-capacitors):</b>		

**Please note:**

- **No more than (6) vehicles per school with a maximum of (3) team members per vehicle**
- Participants must be high school students
- New this year! First top ten schools registered will receive a \$100 travel stipend. Must be present to receive this award
- If your registered team cannot attend, please contact Stephanie Alexander SAE Detroit Section office at [stephanie.alexander@sae-detroit.org](mailto:stephanie.alexander@sae-detroit.org) or (248) 324-4445 ext. 3 as soon as possible

**All forms should be email to [stephanie.alexander@sae-detroit.org](mailto:stephanie.alexander@sae-detroit.org)**