## SEFMD 2021 Grand Award Winners

Division						
Name	Grade School Name Teacher Name					
Categpry	Title					
Division E						
Zia'area Currie	5 Thirkell ELEMENTARY School Connie Atkisson					
Physical Sciences, Individual Projects	Which alternative Form of Energy is the Most Efficient Way to Power a Generato					
Division J						
Imani Smith	7 Nolan Elementary-Middle Krystal Bolar School					
Engineering (including Mechanics, Environmental, Biomedical)	A green infrastructure:Bioswales					
Rishi Chowdhury	7 Independent Student S Chowdhur					
Plant Sciences	Combining Spectrums for Ideal Plant Growth					
Emmanuel Hurtado-garcia	6 Clippert Academy Middle Tracy Orti School					
Renewable Energy	The Efficiency of Turbine Rotor Designs					
Eashan Daram with Nirvan Daram	8 Novi Middle School Kim Osmonson					
Team	Which Materials Interfere With Wi-Fi Connections					
Tanay Panja	7 Clague MS Priyanka Meharia					
Technology & Robotics	Raspberry pi based access control using machine learning and image recognition					
Division S						
Nicholas Kalkanis	11 Detroit Country Day Upper Duha Fahmy					
Biomedical & Health Sciences	Evaluation of Raman Spectroscopy Probe in the Diagnosis of Brain Tumors					
Angela Xu with Ethan Chen and Jonathan Chen	11 Troy High School Rebecca Brewer					
Biomedical Engineering	Non-contact Continuous Cardiovascular Monitoring System					
Akshith Pulgam	11 Pioneer HS Steve Armstron					
Biomedical Engineering	Can a Glove Stop Heart Attacks?					

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	Division			
	Name	Grade	School Name	Teacher Name
	Categpry	Title		
	Diya Ramesh	10	International Academy	Renee Kiriazis
	Computational Biology & Bioinformatics	•	um-Based mRNA-Targeting Probe nostic Tool	s in Lung Cancer - An Early
	Margaret Yang	11	Cranbrook Kingswood Upper School	Stephanie Kokoszka
	Energy	•	neering Multi-Enzyme Whole-Cell uction	Biocatalysts for Biofuel
	Michelle Hua	10	Cranbrook Kingswood Upper School	Allwyn Cole
	Robotics & Intelligent Machines		ed Silhouette Convolutional Neura gnition	al Network for Human Action
	Mikul Saravanan	10	Cranbrook Kingswood Upper School	Stephanie Kokoszka
	Robotics & Intelligent Machines	s Smar	t robot to purify, humidify and dis	sinfect the air
	Pooja Kannappan	11	Bloomfield Hills High School	Noelle Collis
	Translational Medical Science		stigating Differential Gene Regulat escents	ion in the PBMC of Obese

West Bloomfield High School

Developing an Opioid Painkiller Alternative using the Epigenetic

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Correlation b

Nic Fraylick

Audrey Gunawan

Translational Medical Science

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