

SEFH Teacher of the Year Award

School	Grade Level	Teacher First Name	Teacher Last Name
SEABROOK INTERMEDIATE	Junior	Christopher	Lowe
KILLOUGH MIDDLE SCHOOL	Junior	Lauren	Mitchell
Kempner High School	Senior	James	Sellers
Eisenhower 9th Grade School	Senior	Jill	Hines
Hightower High School	Senior	John	Ramon
YES Prep High School	Senior	Laurel	Bingman

Best in Division

Life Science

School	Project Title	Student Name
FRIENDSWOOD JUNIOR HIGH SCHOOL	Can Potassium help Save Water in Rice Production?	Ganesh Venu

Physical Science

School	Project Title	Student Name
League City Intermediate School	Optimizing Crowd Emergency Evacuation Response Time Using Pedestrian Evacuation Dynamics, Monte Carlo Simulation, and Nash Equilibrium Theory	Emily Troutman

Engineering

School	Project Title	Student Name
SARTARTIA MIDDLE SCHOOL	Breaking Down the Breakwaters	Ved Ganesh

Grand Award Recognition

Representing the LIFE SCIENCES categories

School	Project Title	Student Name
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ACADEMY OF SCIENCE AND TECHNOLOGY	Organic Stimulation of Plant Growth - Bacterial endophytes from Leersia oryzoides	Adham Kassem
ACADEMY OF SCIENCE AND TECHNOLOGY	Modeling Prenatal Nicotine Exposure with Hydra Littoralis	Christopher Calizzi
FRIENDSWOOD HIGH SCHOOL	Procrastination Versus Perceived Consequences	Aly Knowles
ACADEMY OF SCIENCE AND TECHNOLOGY	Analyzing the Effects of CRISPR	Melannie Nimocks
Representing the PHYSICAL SCIENCES categories		
School	Project Title	Student Name
ACADEMY OF SCIENCE AND TECHNOLOGY	Faraday's Return	Sebastian Saenz
ACADEMY OF SCIENCE AND TECHNOLOGY	Implementing Econophysics to Predict Mixed Migrations	Brendan Alam
BALL HIGH SCHOOL	Mitochondrial Effects of High Energy High Charge (HZE) Irradiation on the Liver	Alexandra Tan
ACADEMY OF SCIENCE AND TECHNOLOGY	Engineering a Novel Wearable Biosensing Mechanism Through the Implementation Of Microelectromechanical Systems and Machine Learning to Realize Anomalies Hinting Toward Future Fatal Cardiac Episode	Prerit Choudhary
Representing the ENGINEERING categories		
School	Project Title	Student Name
DULLES HIGH SCHOOL	PanOculus: A Novel, Multifaceted Diagnostic Tool for Skin Cancer, Diabetic Retinopathy, and Otitis Media Powered by Deep Learning	Naail Lakhani
DULLES HIGH SCHOOL	PanOculus: A Novel, Multifaceted Diagnostic Tool for Skin Cancer, Diabetic Retinopathy, and Otitis Media Powered by Deep Learning	Abhinav Sinha
DULLES HIGH SCHOOL	PanOculus: A Novel, Multifaceted Diagnostic Tool for Skin Cancer, Diabetic Retinopathy, and Otitis Media Powered by Deep Learning	Jayanth Pratap
CLEAR BROOK HIGH SCHOOL	Portable Graphene Oxide Desalination	Marcus Schlauch
ACADEMY OF SCIENCE AND TECHNOLOGY	Improving Motorcyclist Safety: A New Helmet Integrity Monitoring Technology	Ronin Burke
ACADEMY OF SCIENCE AND TECHNOLOGY	Improving Motorcyclist Safety: A New Helmet Integrity Monitoring Technology	Jeremiah Elizabe
CLEAR LAKE HIGH SCHOOL	Application of Engineered Natural Materials for Phosphorus Removal to Control Algae Blooms in Eutrophic Water with Insight into Chemical Mechanisms and Large-Scale Feasibility Analysis	Richard Zhang
CLEAR LAKE HIGH SCHOOL	Application of Engineered Natural Materials for Phosphorus Removal to Control Algae Blooms in Eutrophic Water with Insight into Chemical Mechanisms and Large-Scale Feasibility Analysis	Steven Wu