

# 2013 SEFH Writing Contest Winners

## JUNIOR

### *First Place*

Shefali Chopra  
Seabrook Intermediate  
Effect on Liquefaction of Soil

### *Second Place*

Syamantak Pavra  
Westbrook Intermediate School  
Solar Panel: Quantum Efficiency and Photon Dependency

### *Third Place*

Andrea Santa Cruz  
McCullough Junior High  
Galveston Beach Sand: A Bug Party?

### *Honorable Mention*

Katelyn Bouthilette  
McCullough Junior High  
Earthworms and Greywater: The Study of EPA-Approved and Conventional Detergents

## NINTH

### *First Place*

Margaret Steiner  
The Academy of Science and Technology  
Mirror Neurons and Game Theory

### *Second Place*

Kendall Kruchten  
The Academy of Science and Technology  
Are Green Detergents Truly More Eco-Friendly?

### *Third Place*

Katie MacDonald  
The Academy of Science and Technology  
High School Students' Perception of Self-Esteem

### *Honorable Mention*

John Overbeck  
The Academy of Science and Technology  
Effects of Acid on Bacteria

**SENIOR**

*First Place*

Kushal Kadakia  
Clear Lake High School  
Heavy Metal Removal Using Fe<sub>3</sub>O<sub>4</sub> Nanoparticles II

*Second Place*

Catherine Castagna  
The Academy of Science and Technology  
Exploring Hydroponic Growing Methods II

*Third Place*

Taylor Unger  
The Academy of Science and Technology  
pH and Dinoflagellate Bioluminescences

*Honorable Mention*

Andy Tran  
Michael E. DeBakey High School for Health Professions  
Cardiac Immunosensors for Rapid Heart Attack Diagnosis