

## 2014 SEFH Special Awards

Division	Place	Category	First Name	Last Name	Exhibit Title	School
<b>Air Alliance Houston</b>						
Junior	Winner	Engr/Comp/Math (Jr Team)	Tu	Nguyen	Air Rush Mics	Killough Middle School
Junior	Winner	Engr/Comp/Math (Jr Team)	Marco	Martinez	Air Rush Mics	Killough Middle School
Junior	Winner	Environmental Sciences	Madeline	Diamont	Breath Indoors, Breath Outdoors	Bear Branch Junior High School
9th	Winner	Life Sciences (9th Team)	Chika	Orioha	Producing Fuel From Starch Procts	Academy For Science & Health Proffesions
9th	Winner	Life Sciences (9th Team)	Vanessa	Jones	Producing Fuel From Starch Procts	Academy For Science & Health Proffesions
9th	Winner	Energy/Transportation	Michael	Calizzi	Factors Affecting Algal Biodiesel Production	Academy of Science & Technology
Senior	Winner	Engr/Physical Sci (Sr Team)	Christine	Castagna	Solar Thermal Solutions	Academy of Science & Technology
Senior	Winner	Engr/Physical Sci (Sr Team)	Justin	Stobart	Solar Thermal Solutions	Academy of Science & Technology
Senior	Winner	Engr/Physical Sci (Sr Team)	Matthew	Frangos	Solar Thermal Solutions	Academy of Science & Technology
Senior	Winner	Environmental Sciences	Asma	Olajuwon	Fuel of the Future	Iman Academy Southwest
<b>Alumni Club of MIT</b>						
Senior	First Place	Engineering	Leon	Warnakulasuriya	Artificial Gills	Clear Springs High School
Senior	First Place	Engineering	Shreya	Mandal	Fluid Identification Using Dielectric Properties	Hightower High School
<b>Amercan Institute of Chemical Engineers, South Texas Section</b>						
Junior	Second Place	Engineering	Constantine	Tzouanas	Terrific Tank Tuning	Clear Lake High School
Senior	First Place	Environmental Sciences Energy/Transportation	Kushal	Kadokia	Heavy Metal Removal Using Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Iii	Clear Lake High School
Senior	Winner		Wittiker	Schlauch	Extraction of Oil from Algae Using Dimethyl Ether	Clear Brook High School
<b>American Industrial Hygiene Association-Gulf Coast Section</b>						
Senior	First Place	Environmental Sciences	Perry	Alagappan	Novel Renewable Nanofilter for Heavy Metal Removal	Clear Lake High School
Senior	First Place	Medicine Health	Kishore	Balasubramanian	Novel Nanoparticles for Drug Delivery-Phase II	Klein Oak High School
Senior	First Place	Engineering	Shreya	Mandal	Fluid Identification Using Dielectric Properties	Hightower High School

**American Meterological Society-Houston Chapter**

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Junior	Second Place	Earth/Space Sciences	Isaac	Hugel	Tornadoes: The Threat and Wonder	David Crockett Middle School
Junior	Third Place	Earth/Space Sciences	Mary	Roccaforte	Twister!	Peet Junior High School
9th	First Place	Environmental Sciences	Sharon	McMains	Save This House	Houston Academy for International Studies
9th	Second Place	Environmental Sciences	Ethan	Dickey	Co2s Effect on Global Warming	Clear Lake 9th Grade Ctr
9th	Third Place	Engineering	Keya	Shial	Taming the Tsunami	Academy of Science & Technology
Senior	First Place	Earth/Space Sciences	Joseph	Valencia	The Fire Tornado	Academy of Science & Technology
Senior	Second Place	Earth/Space Sciences	Willam	Wu	Hurrican Landfall Location Early Prediction	Clear Lake High School
Senior	Third Place	Earth/Space Sciences	Stavros	Ktenidis	Out of Thin Air Iii	Academy of Science & Technology

**American Pyschological Association**

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Senior	First Place	Behavior and Social Sciences	Divya	Koyyalagunta	Role of Sst Interneurons in Alzheimer's Phenotype	Clear Lake High School
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**American Society of Indian Engineers**

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Senior	First Place	Engineering	Ruhika	Roy	Novel Sensor & Microcon-troller for Vibration Detec	Lawrence Elkins High School
Senior	Second Place	Life Sciences (Sr Team)	Sukhnoor	Cheema	Kidney Cell Shock	Hightower High School
Senior	Second Place	Life Sciences (Sr Team)	Anishya	Idicula	Kidney Cell Shock	Hightower High School
Senior	Second Place	Life Sciences (Sr Team)	Jessica	Thomas	Kidney Cell Shock	Hightower High School
Senior	Third Place	Computer Science	Glen	Lauritsen	Analysis of Trends in Comptner Passwords	Academy of Science & Technology

**ASM International Houston Chapter**

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9th	First Place	Physics & Astronomy	Zivan	Vasquez	The Potoelectric Properties of Graphene	Academy of Science & Technology
9th	Second Place	Engineering	Stephanie	Morris	Caulk Tensile Testing	Magnolia High School
9th	Third Place	Energy/Transportation	Caroline	Dimpel	Heat: Houston Energy Absorbtion and Transfer	Academy of Science & Technology
Senior	First Place	Engineering	Ruhika	Roy	Novel Sensor & Microcon-troller for Vibration Detec	Lawrence Elkins High School
Senior	Second Place	Engineering	Roma	Patel	Super Mechanized Arm	Harmony School of Advancement
Senior	Third Place	Energy/Transportation	Nicholas	Esposito	Optical Frequency Monitor	Academy of Science & Technology

**American Society for Quality, Section 1405**

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9th	Second Place	Energy and Transportation	Michael	Bohnet	Enhancing the Dye Sensitized Solar Cell	Academy of Science & Technology
Junior	Third Place	Environmental Science	Kaitlyn	Ramirez	Mississippi Nitroge: A Dead Zone Culprit	John Cooper School
Senior	First Place	Computer Sciences	Roma	Pradhan	Train the Artifical Brain 2	Friendswood High School
Senior	First Place	Physics & Astronomy	Kavita	Selva	Superconductor Defects Vs. Trapped Magnetice Field	Clear Lake High School

**American Society of Mechanical Engineers South Texas Section**

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Senior	First Place	Engr/Physical Sci (Sr Team)	Christine	Castagna	Solar Thermal Solutions	Academy of Science & Technology
Senior	First Place	Engr/Physical Sci (Sr Team)	Justin	Stobart	Solar Thermal Solutions	Academy of Science & Technology
Senior	First Place	Engr/Physical Sci (Sr Team)	Matthew	Frangos	Solar Thermal Solutions	Academy of Science & Technology
Senior	First Place	Engr/Physical Sci (Sr Team)	Akash	Shukla	Behavioral Changes in Slinky Levitation	Bellaire Senior High School
Senior	First Place	Engr/Physical Sci (Sr Team)	Kurt	Warren	Behavioral Changes in Slinky Levitation	Bellaire Senior High School
Senior	First Place	Physics & Astronomy	Jocelyn	Walker	Don't Be a Drag: Streamlined Shapes	Clear Falls High School

**American Society of Materials International South Texas Section**

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Junior	First Place	Engineering	Nathan	Jacob	Conductive Analysis of Graphene	Quail Valley Middle School
Junior	First Place	Chemistry	Patrick	Jones	Plantain Plastics	TH Rogers Middle School
Junior	Second Place	Physics & Astronomy	Claire	Warren	Hooked on Hooke's Law	Trafton Academy
Junior	Third Place	Behavioral/Social Sciences	Jessica	Young	How Different Music Affects Your Heart Rate	John Cooper School
Senior	Second Place	Engineering	Nicholas	Zhao	Raman Spectroscope Design	Academy of Science & Technology
Senior	Third Place	Environmental Sciences	Caitlyn	Clemmer	Pollute Out Pollutants	Clear Brook High School

**American Society of Safety Engineers-Gulf Coast Chapter**

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Senior	First Place	Behavioral / Social Sciences	Erin	Janak	Listen Up: A Study of the Cocktail Party Effect	Friendswood High School
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**American Statistical Association- Houston Area Chapter**

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Junior	First Place	Biochemistry/Microbiology	Zamira	Harris-Ryden	Cultured Potato Salad	Seabrook Intermediate School
Senior	First Place	Mathematics	Shanika	Silva	Genetic Forecast 2!	Friendswood High School
Senior	First Place	Animal/Zoology	Amanda	Doyle	Planarian's Labyrinth	Academy of Science & Technology

**American Water Works Association - Texas Section & Water Environment Association of Texas**

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Junior	First Place	Chemistry	Zachary	Bouthillette	Grey Water Turbidity -Friend or Foe	McCullough Junior High School
Junior	Second Place	Bot/EnvSci/Zoo (Jr Team)	Molly	Bustos	Fat N' Happy	Seabrook Intermediate School

Junior	Second Place	Bot/EnvSci/Zoo (Jr Team)	Audrey	Gold	Fat N' Happy	Seabrook Intermediate School
Junior	Second Place	Environmental Science	Kaitlyn	Ramirez	Mississippi Nitroge: A Dead Zone Culprit	John Cooper School
9th	First Place	Engr/Physical Sci (9th Team)	Rachel	Luomala	Utilizing Biochar for Water Filtration	Academy of Science & Technology
9th	First Place	Engr/Physical Sci (9th Team)	Brunon	Walczak	Utilizing Biochar for Water Filtration	Academy of Science & Technology
Senior	First Place	Chemistry	Zoha	Khan	Membrane Free Desalination	Academy of Science & Technology
Senior	Third Place	Chemistry	Lucy	Stinn	Goodbye hard Water! A Designed Experiment	Magnolia High School
Senior	Second Place	Environmental Sciences	David	Floris	Effectively Removing Bitumen from Rivers	Academy of Science & Technology
Senior	Third Place	Environmental Sciences	Caitlyn	Clemmer	Pollute Out Pollutants	Clear Brook High School

#### **The Buffalo Bayou Chapter of Hazardous Materials Managers**

Junior	Winner	Environmental Sciences	Garrett	Klinger	Flea with a Heart Beat	Seabrook Intermediate School
Senior	First Place	Environmental Sciences	Kushal	Kadakia	Heavy Metal Removal Using Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Iii	Clear Lake High School

#### **Consumer Energy Alliance**

Junior	First Place	Energy/ Transportation	Tony	Kedzeirski	Rock 'n' Flow	McCullough Junior High School
Junior	Second Place	Energy/ Transportation	Ashley	Clopton	Greener Gas 2	Quail Valley Middle School
Junior	Third Place	Energy/ Transportation	Olof	Olshall	Follow the Sunlight	Seabrook Intermediate School
9th	First Place	Energy/Transportation	Michael	Bohnet	Enhancing the Dye Sensitized Solar Cell	Academy of Science & Technology
9th	Second Place	Energy/Transportation	Michael	Calizzi	Factors Affecting Algae Biodiesel Production	Academy of Science & Technology
9th	Third Place	Energy/Transportation	Wittiker	Schlauch	Extraction of Oil from Algae Using Dimethyl Ether	Clear Brook High School
Senior	First Place	Energy/Transportation	Matthew	Caffet	Riding the Wave: Energy in Motion	Academy of Science & Technology
Senior	Second Place	Energy/Transportation	Harsha	Dannapaneni	Nanowires: Enhancers in Solar Power	High Tower High School
Senior	Third Place	Energy/Transportation	Nicholas	Esposito	Optical Frequency Monitor	Academy of Science & Technology

#### **Deepthi Anaresh Setlur**

Junior	Fourth Place	Engineering	Constantine	Tzouanas	Terrific Tank Tuning	Clear Lake High School
Senior	First Place	Engineering	Ruhika	Roy	Novel Sensor & Microcon-troller for Vibration Detec	Lawrence Elkins High School
Senior	First Place	Engineering	Justin	DuPont	Non-tethered Communications for Heart Pumps	Clear Falls High School
Senior	Second Place	Engineering	Deeksha	Madala	Generating Energy from Body Heat Part 2	Clear Lake High School
Senior	Third Place	Engineering	Roma	Patel	Super Mechanized Arm	Harmony School of Advancement

**Engineering, Science & Technology Council of Houston (Also Known as ECH)**

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Senior	Winner	Medicine/Health	Kishore	Balasubramanian	Novel Nanoparticles for Drug Delivery-Phase II	Klein Oak High School
Senior	Winner	Medicine/Health	Margaret	Steiner	The Neurophysical Effects of Artificial Sweetners	Academy of Science & Technology
Senior	Winner	Chemistry	Mariel	Rascon	Time Bubbles	Hightower High School
Senior	Winner	Chemistry	Austin	Bae	Optimizing Methane Conversion	Academy of Science & Technology
Senior	Winner	Earth/Space Sciences	Taylor	Cubbage	Fossils in Our Own Backyard	Friendswood High School
Senior	Winner	Earth/Space Sciences	Brenna	Johnson	Chilling Out In Space	Clear Lake High School
Senior	Second Place	Earth/Space Sciences	Willam	Wu	Hurrican Landfall Location Early Prediction	Clear Lake High School
Senior	Winner	Engineering	Ruhika	Roy	Novel Sensor & Micro-controller for Vibration Detec	Lawrence Elkins High School
Senior	Winner	Engineering	Shreya	Mandal	Fluid Identification Using Dielectric Properties	Hightower High School
Senior	Winner	Mathematics	Jaye	Wilson	Algorithms and Bengal Tigers Oh My!	Davis High School
Senior	Winner	Mathematics	Shanika	Silva	Genetic Forecast 2!	Friendswood High School
Senior	Winner	Energy/Transportation	Vidisha	Srivastav	Ionically-Gated Carbon Nanotube Vertical Ofets	Seven Lakes High School
Senior	Winner	Energy/Transportation	Matthew	Caffet	Riding the Wave: Energy in Motion	Academy of Science & Technology
Senior	Winner	Physics & Astronomy	Brenda	Rubio	Measuring the Speed of Light Using a Microwave	Eishenhower High School
Senior	Winner	Physics & Astronomy	Aditya	Mohile	Technology with Zero Resistance	Friendswood High School
Senior	Winner	Animal Science/Zoology	Tiffany	Loggins	Uv Radiation and Drosophila Melanogaster	Academy for Science & Health Professions
Senior	Winner	Engineering Physical Sciences Team	Jackson	Valencia	Supercapacitors Utilizing Light Scribed Graphene	Academy of Science & Technology
Senior	Winner	Engineering Physical Sciences Team	Dalton	Kott	Supercapacitors Utilizing Light Scribed Graphene	Academy of Science & Technology

**Geophysical Society of Houston**

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Senior	First Place	Earth/Space Sciences	Byron	Xu	Accurate Ocean Floor Mapping	Clements High School
Senior	First Place	Computer Science	Hung	Nguyen	Visual-based Lane Detection	Harmony School of Science- Sugar Land
Senior	Second Place	Physics & Astronomy	Brenda	Rubio	Measuring the Speed of Light Using a Microwave	Eishenhower High School
Senior	Second Place	Engineering	Sarah	Palmer	Watts in the Wind/Water li	Friendswood High School

**Greater Houston Dental Society**

Junior	First Place	Medicine/Health	Alejandro	Castro-Macias	Are You Eating Your Own Teeth II?	McCullough Junior High School
Junior	First Place	BehSci/Biochem/MedHeal (Jr Team)	Christopher	McDonald	Effects of Beverages on Tooth Enamel	John Cooper School
Junior	First Place	BehSci/Biochem/MedHeal (Jr Team)	Omar	Suki	Effects of Beverages on Tooth Enamel	John Cooper School
Junior	Second Place	Medicine/Health	Kelsie	Alexander	Effects of Whitening on Tooth Enamel	Gerald D. Irons Junior High School
Junior	Second Place	BehSci/Biochem/MedHeal (Jr Team)	Karla	Hernandez	Teeth Staining	San Jacinto Intermediate School
Junior	Second Place	BehSci/Biochem/MedHeal (Jr Team)	Alina	Nacienceno	Teeth Staining	San Jacinto Intermediate School
Junior	Third Place	Medicine/Health	Vivian	Ung	Staining Tea-th	Sugar Land Middle School
Junior	Third Place	Physical Sciences (Junior Team)	Gisella	Carpentier	Stain	Energized for Excellence Academy Middle School
Junior	Third Place	Physical Sciences (Junior Team)	Ana	Sorto	Stain	Energized for Excellence Academy Middle School
Junior	Third Place	Physical Sciences (Junior Team)	Chavez	Chavez	Stain	Energized for Excellence Academy Middle School
9th	First Place	Medicine Health	Soha	Baig	Tealafee	Hastings 9th Grade Center
9th	First Place	Engr/Physical Sci (SrTeam)	Maria	Nava	Acid World	George Bush High School
9th	First Place	Engr/Physical Sci (SrTeam)	Khoa	Nguyen	Acid World	George Bush High School
Senior	First Place	Medicine Health	Chuhan	Wang	Dental Innovation Via Povidone-iodine	Debakey High School for Health Professions

**Gulf Coast Regulatory & Environmental Affairs Group**

Junior	First Place	Medicine/Health	Jill	Bohnet	Lotion in Motion	McCullough Junior High School
Junior	Winner	Biochemistry/Microbiology	Alexandra	Boehning	Is Fracking Frightful? 2.0	League City Intermediate School
Junior	Winner	Environmental Science	Kaitlyn	Ramirez	Mississippi Nitroge: A Dead Zone Culprit	John Cooper School
9th	Winner	Engr/Physical Sci (9thTeam)	Payton	Wright	Oil, Soap, Spills...Oh My!	Academy For Science & Health Professions
9th	Winner	Engr/Physical Sci (9thTeam)	Shannon	Winoski	Oil, Soap, Spills...Oh My!	Academy For Science & Health Professions
Senior	Winner	Environmental Sciences	Shyam	Gandhi	Potential Regional Impacts of Fracking Contamination	Clear Brook High School

**Gulf Coast Safety and Training Group**

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Senior	Winner	Animal Science/Zoology	Sarah	Meidel	Daphnia Magna and the Caffeine Buzz li	Academy of Science & Technology
Senior	Winner	Engineering	Ruhika	Roy	Novel Sensor & Microcon-troller for Vibration Detec	Lawrence Elkins High School
Senior	Winner	Engr/Physical Sci (SrTeam)	Paul	Tan	UV Blockage Effectiveness	Bellaire Senior High School
Senior	Winner	Engr/Physical Sci (SrTeam)	Shu-en	Shen	UV Blockage Effectiveness	Bellaire Senior High School
Senior	Winner	Engr/Physical Sci (SrTeam)	Anastasia	Chan	UV Blockage Effectiveness	Bellaire Senior High School
Senior	Winner	Engr/Physical Sci (SrTeam)	Maria	Nava	Acid World	George Bush High School
Senior	Winner	Engr/Physical Sci (SrTeam)	Khoa	Nguyen	Acid World	George Bush High School

**HarrIntermediate School County Medical Society / Houston Academy of Medicine**

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9th	First Place	Medicine / Health	Nivva	Emmi	Can They Fix It?	Academy of Science & Technology
Senior	First Place	Medicine / Health	Jennifer	Avila	Germly Hands	Macarthur High School
Senior	Second Place	Medicine / Health	Kishore	Balasubramanian	Novel Nanoparticles for Drug Delivery-Phase II	Klein Oak High School
Senior	Third Place	Medicine / Health	Jessica	Watson	To Wait, or Not to Wait	Academy For Science & Health Professions
Senior	Fourth Place	Medicine / Health	Skylar	McHenry	Provin' Ibuprofen II	Friendswood High School

**Health Physics Society**

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Junior	First Place	Bot/EnvSci/Zoo (Jr Team)	Heide	Salgado	Radioactive	Young Women's College Preparatory
9th	First Place	Biochemistry/Microbiology	Roshni	Sen	Decontamination of Water Using UV Rays	Academy of Science & Technology
Senior	First Place	Physics & Astronomy	Miriam	Matney	Photofission of an Antinide Target	Clear Lake 9th Grade Ctr

**Houston Academy of Nutrition and Dietics**

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Junior	Third Place	Chemistry	Gauri	Janwadkar	Cupcake! Chemistry?	McCullough Junior High School
9th	First Place	Biochemistry/Microbiology	Sarah	Halprin	Allergic Reactions	Clear Horizons Early College High School
9th	Second Place	Medicine / Health	Madeleine	Thompson	Biggest Gainer	Friendswood High School
9th	Third Place	Biochemistry/Microbiology	Annie	Zhang	"Whey" Cool Caseins	Academy of Science & Technology
Senior	Third Place	Biochemistry/Microbiology	Abigail	Alvarado	Organic vs GMO	Alief Early College High School
Senior	First Place	Life Sciences (Sr Team)	Tristan	Lim	Healthy Food Score: An International Comparison II	Debakey High School for Health Professions
Senior	First Place	Life Sciences (Sr Team)	Tassica	Lim	Healthy Food Score: An International Comparison II	Debakey High School for Health Professions
Senior	Second Place	Life Sciences (Sr Team)	Anushka	Madhuvarshi	Effects of Spices on Food Poisoning Bacteria	Debakey High School for Health Professions

Senior	Second Place	Life Sciences (Sr Team)	Sasha	Raman	Effects of Spices on Food Poisoning Bacteria	Debakey High School for Health Professions
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Senior	Second Place	Life Sciences (Sr Team)	Nishaa	Iqbal	Effects of Spices on Food Poisoning Bacteria	Debakey High School for Health Professions
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**Houston Astronomical Society**

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Junior	First Place	Physics & Astronomy	Gabriel	Sanchez Ainsa	Faster Than Light: A Journey to the Black Hole	Woodlands Preparatory School
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Junior	Second Place	Physics & Astronomy	Mitchell	Novak	Gazing into the Night	McCullough Junior High School
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9th	First Place	Energy / Transportation	Brynn	Reynolds	Harnessing Solar Energy Using Curved Mirrors	Magnolia West High School
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9th	Second Place	Environmental Sciences	Ethan	Dickey	Co2s Effect on Global Warming	Clear Lake 9th Grade Ctr
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Senior	First Place	Engr/Physical Sci (SrTeam)	Jay	Martin	The Tracks of Cosmic Rays	Magnolia High School
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Senior	First Place	Engr/Physical Sci (SrTeam)	James	Shortle	The Tracks of Cosmic Rays	Magnolia High School
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Senior	First Place	Physics & Astronomy	Sergey	Koryakin	Characterization of L-point Transition Orbits	Memorial S High School
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**Houston Geological Society**

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9th	Winner	Earth / Space Sciences	Ashley	Wright	Earthquake Proof Building Foundations	Texas Connections Academy
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Senior	Winner	Earth / Space Sciences	Taylor	Cubbage	Fossils in Our Own Backyard	Friendswood Junior High School
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Senior	Winner	Energy/Transportation	Vidisha	Srivastav	Ionically-gated Carbon Nanotube Vertical Ofets	Seven Lakes High School
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**Houston Intellectual Property Law**

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Junior	Winner	Environmental Science	Kaitlyn	Ramirez	Mississippi Nitroge: A Dead Zone Culprit	John Cooper School
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**International Society of Automation**

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Junior	Second Place	Engineering	Constantine	Tzouanas	Terrific Tank Tuning	Clear Lake High School
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Senior	First Place	Engineering	Ruhika	Roy	Novel Sensor & Microcon-troller for Vibration Detec	Lawrence Elkins High School
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Senior	Third Place	Engineering	Sloka	Valleru	Did You Hear Something	Academy of Science & Technology
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Senior	Fourth Place	Engineering	Ryan	Bourland	Wings Lets Us Fly	Dickinson High School
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**Jacobs**

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Junior	Winner	Medicine/Health	Alex	Abate	Effects of Various Adipose Tissue Types on Stem Cells	League City Intermediate School
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Junior	Winner	Earth/Space Sciences	Abby	West	Water on the Moon	Seabrook Intermediate School
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Junior	Winner	Earth/Space Sciences	Jullian	Wieck	Reaching Mach 1 with a Homemade Model Rocket	Trafton Academy
Junior	Winner	Earth/Space Sciences	Alicia	Brown	Mars Lander Legs	Seabrook Intermediate School
Junior	Winner	Engineering	Nikhil	Singh	Robot Rescue Mission	Fort Settlement Middle School
Junior	Winner	Computer Science	Jonas	Traweek	Programming a Robot to Clean a Room	Magnolia Junior High School
9th	Winner	Behavioral / Social Sciences	Leah	Caron	I can Hear the Colors Too	Academy of Science & Technology
9th	Winner	Engineering	Royina	Roy	Lock the Winterization Effect Using Piezo Sensors	Clements High School
Senior	Winner	Physics & Astronomy	Jamie	McCullough	Optimization of Rocket Nozzle Performance	Friendswood High School
Senior	Winner	Physics & Astronomy	Sergey	Koryakin	Characterization of L-point Transition Orbits	Memorial S High School
Senior	Winner	Earth/Space Sciences	Willam	Wu	Hurrican Landfall Location Early Prediction	Clear Lake High School
Senior	Winner	Earth/Space Sciences	Stavros	Ktenidis	Out of Thin Air Iii	Academy of Science & Technology
Senior	Honorable Mention	Behavioral / Social Sciences	Erin	Janak	Listen Up: A Study of the Cocktail Party Effect	Friendswood High School
Senior	Honorable Mention	Behavioral / Social Sciences	Tori	Holmes	Serif Font vs Sans Serif Font Part 2	Hightower High School
Senior	Honorable Mention	Chemistry	Nicholas	Roccaforte	Amazing Water Splitting Catalyst - Part 2	Acad. For Sci & Health Prof.

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**John M Dilorio**

9th	Second Place	Physics & Astronomy	Janet	Sonka	Ballistic Fingerprinting	Academy of Science & Technology
9th	Second Place	Eart h and Space	Crystal	Chacko	Fingerprint of Deuterium	Friendswood High School
9th	Third Place	Physics & Astronomy	Zivan	Vasquez	The Potoelectric Properties of Graphene	Academy of Science & Technology
Senior	Second Place	Energy/Transportation	Matthew	Caffet	Riding the Wave: Energy in Motion	Academy of Science & Technology
Senior	First Place	Physics & Astronomy	Miriam	Matney	Photofission of an Antinide Target	Clear Lake High School
Senior	Third Place	Biochemistry/Microbiology	Bryan	Dieu	Investigation the Effect of Mep Pathway Inhibition	Debakey High School for Health Professions
Senior	Fourth Place	Engineering	Kevin	Wang	Strain Sensing with Carbon Nanofibers	Bellaire Senior High School
Senior	First Place	Engi Phsyical Sciences Team	Sarah	Hancock	Holes can Lift Continuing Study of Separation Effe	Clear Horizons Early College High School
Senior	First Place	Engi Phsyical Sciences Team	Kate	Rutherford	Holes can Lift Continuing Study of Separation Effe	Clear Horizons Early College High School
Senior	Third Place	Mathematics	Andrew	Koltko	Bayes' Rule, False Positives, and Misdiagnosis	Debakey High School for Health Professions

**Kellogg Brown & Root**

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Junior	Winner	Engineering	Lucas	Hopkins	Origami is not Just Art	Friendswood Junior High School
Junior	Winner	Environmental Sciences	Denisse	Cordova	But, Water Is All the Same, Correct?	Hambrick Middle School

**Marine Technology Society**

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Junior	First Place Place	Environmental Sciences	Maya	Duran	Which Cleans Oil Spills Best?	York Junior High School
9th	First Place	Earth/Space Sciences	Byron	Xu	Accurate Ocean Floor Mapping	Clements High School
Senior	First Place	Energy/Transportation	Matthew	Caffet	Riding the Wave: Energy in Motion	Academy of Science & Technology
Senior	Second Place	Engineering	Sabrina	Hossain	The Effects of Geometry on Bridge Design	Clear Lake High School
Senior	Second Place	Engineering	Sarah	Palmer	Watts in the Wind/Water li	Friendswood High School
Senior	Third Place	Environmental Sciences	Samantha	Alleman	Algae: An Oil Spill Cleaner?	Academy of Science & Technology

**Rice U Geo R. Brown School of Eng**

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Junior	Winner	Engineering	Constantine	Tzouanas	Terrific Tank Tuning	Clear Lake High School
Senior	Second Place	Engineering	Roma	Patel	Super Mechanized Arm	Harmony School of Advancement

**Sigma XI, The Research Society - Rice University, TX Medical Center Chapter**

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Senior	First Place	Medicine and Health	Akshaya	Annapragada	Identification of Aptamerliposome Bioconjugates	Debakey High School for Health Professions
Senior	First Place	Physics & Astronomy	Jamie	McCullough	Optimization of Rocket Nozzle Performance	Friendswood High School

**Society of Plastics Engineers - South Texas Section**

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9th	First Place	Environmental Sciences	Andrea	Santa Cruz	Select Pop Interaction with Synthetic Polymers	Academy of Science & Technology
9th	Second Place	Physics & Astronomy	Zachary	Kunkel	Dropping G's	Friendswood High School
Junior	First Place Place	Chemistry	Patrick	Jones	Plantain Plastics	TH Rogers Middle School
Junior	Second PlacePlace	Environmental Sciences	Maya	Duran	Which Cleans Oil Spills Best?	York Junior High School
Junior	Third Place Place	Engineering	Rhianna	Spong	Block that Noise!	Friendswood Junior High School
Junior	First Place Place	Physical Sciences (Jr Team)	Lauryn	Cornish	Turning Milk into Plastic	Drew Academy
Junior	First Place Place	Physical Sciences (Jr Team)	Autumn	Zepda	Turning Milk into Plastic	Drew Academy

**Society of Women Engineers - Houston Area Section**

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Junior	1st Place	Engineering	Lousie	Zeng	Eggshellent Arches	Quail Valley Middle School
Junior	Second Place	Engineering	Rhianna	Spong	Block that Noise!	Friendswood Junior High School
Junior	Third Place	Environmental Science	Kaitlyn	Ramirez	Mississippi Nitroge: A Dead Zone Culprit	John Cooper School
Junior	Third Place	Engineering	Gayathri	Krishna	Sturdy Seashells: A Concrete Fact	Westbrook Intermediate School
Senior	First Place	Physics & Astronomy	Miriam	Matney	PhtofIntermediate Schoolsion of an Antinide Target	Clear Lake High School
Senior	First Place	Engineering	Sarah	Palmer	Watts in the Wind/Water li	Friendswood High School
Senior	Second Place	Engineering	Roma	Patel	Super Mechanized Arm	Harmony School of Advancement
Senior	Second Place	Engineering	Deeksah	Madala	Generating Energy from Body Heat Part 2	Clear Lake High School
Senior	Second Place	Animal/Zoology	Amanda	Doyle	Planarian's Labyrinth	Academy of Science & Technology

**Swaralayam Arts Forum**

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Junior	Second Place	Behavioral/Social Sciences	Isha	Parupudi	Musical Magnificent Effects	League City Intermediate School
Junior	Honorable Mention	Behavioral/Social Sciences	Jessica	Young	How Different Music Affects Your Heart Rate	John Cooper School
Junior	Honorable Mention	Physics & Astronomy	Sarah	McCullough	The Sound of Music	Friendswood Junior High School
9th	First Place	Behavioral / Social Sciences	Kevin	Svetlitski	Music for Memory	Academy of Science & Technology
Senior	HM	Mathematics	Matthew	Czerniak	Patterns in Classical Music II	Academy of Science & Technology
Senior	HM	Mathematics	Alejandro	Morales	Chord Progressions and Popular Music	Academy of Science & Health Professions

**The Krishen Foundation for Arts & Sciences**

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Junior	First Place	Mathematics	Alexander	Whatley	Bounding Solutions for Laurent Polynomials	North Houston Academy of Science & Mathematics
Senior	First Place	Mathematics	Andrew	Koltko	Bayes' Rule, False Positives, and Misdiagnosis	Debakey High School for Health Professions
Senior	Winner	Chemistry	Austin	Bae	Optimizing Methane Conversion	Academy of Science & Technology
Senior	First Place	Chemistry	Lucy	Stinn	Goodbye hard Water! A Designed Experiment	Magnolia High School
Senior	First Place	Medicine and Health	Ashwi	Varma	Mpl-a Prophylaxis: A Novel Treatment for Sepsis	Clear Lake High School
Senior	First Place	Physics & Astronomy	Jamie	McCullough	Optimization of Rocket Nozzle Performance	Friendswood High School
Senior	First Place	Physics & Astronomy	Kavita	Selva	Superconductor Defects Vs. Trapped Magnetice Field	Clear Lake High School

**TX Center for Superconductivity and Advanced Materials & the Center for Materials Chemistry**

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Senior	First Place	Engineering	Adam	Files	Microwave Power Transmission	Home School
Senior	First Place	Physics & Astronomy	Sergey	Koryakin	Characterization of L-point Transition Orbits	Memorial S High School
Senior	Second Place	Engineering	Caroline	Rosanky	The Thermoelctric Oven	Academy of Science & Technology
Senior	Second Place	Physics & Astronomy	Brenda	Rubio	Measuring the Speed of Light Using a Microwave	Eisenhower High School

**University of Houston - Clear Lake**

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Junior	First Place	Physics & Astronomy	Summer	Rose	Patterns of Sound	Laporte Junior High School
9th	First Place	Engineering	Leon	Warnakulasuriya	Artificial Gills	Clear Springs High School
Senior	Second Place	Physics & Astronomy	Brenda	Rubio	Measuring the Speed of Light Using a Microwave	Eisenhower High School