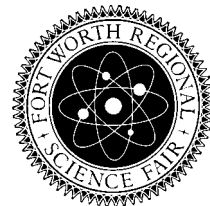


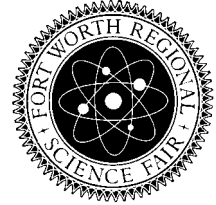
# Fort Worth Regional Science Fair Winners Directory



Award: **Air & Waste Foundation**

<b>First Place: Stephen E. Chisholm</b>	<b>Division: I</b>	<b>Category: Energy and Transportation</b>	<b>00124</b>
<b>Project: A Comparative Study Of Horizontal Axis Wind Turbine Designs</b>			
<b>School North Texas Academy Of Higher Learning</b>	<b>Advisor Donna Szumilla</b>		

# Fort Worth Regional Science Fair Winners Directory



Award: **Air & Waste Foundation**

**First Place: Noah D. Simpson**

Division: **II** Category: **Environmental Science**

**00354**

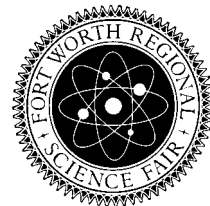
Project: **The Neighborhood Of The Future**

School **Harmony Science Academy**

Advisor **Ms Nickolson**

# Fort Worth Regional Science Fair

## Winners Directory

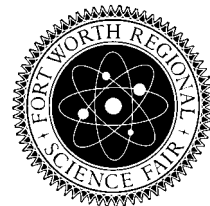


Award: **American Industrial Hygiene Association**

<b>First Place:</b> Jianing Jenny He	Division: I	Category: Environmental Science	00092
<b>Project:</b> Bailey: Improving Btex Detection Using Membrane-introduction Mass Spectrometry (lims)			
School Texas Academy of Mathematics and Sciences		Advisor Ben Owens	

# Fort Worth Regional Science Fair

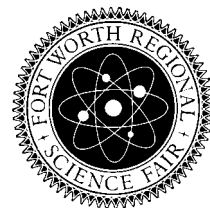
## Winners Directory



Award: **American Industrial Hygiene Association**

Project: <b>The Silent Killer</b>	Division: <b>II</b> Category: <b>Team Project B</b>	<b>05231</b>
School <b>North Joshua Elementary</b>	Advisor <b>Ms Blair</b>	

Project: <b>The Silent Killer</b>	Division: <b>II</b> Category: <b>Team Project B</b>	<b>05232</b>
School <b>North Joshua Elementary</b>	Advisor <b>Ms Blair</b>	



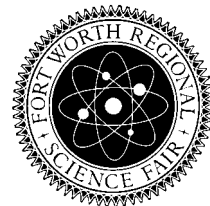
# Fort Worth Regional Science Fair

## Winners Directory

Award: **American Meteorological Society**

<b>First Place:</b> Stephen E. Chisholm	Division: <b>I</b>	Category: <b>Energy and Transportation</b>	<b>00124</b>
Project: <b>A Comparative Study Of Horizontal Axis Wind Turbine Designs</b>			
School: <b>North Texas Academy Of Higher Learning</b>	Advisor: <b>Donna Szumilla</b>		

<b>Second Place:</b> Michaela K. Bueche	Division: <b>II</b>	Category: <b>Earth and Planetary Science</b>	<b>00310</b>
Project: <b>Does Water Temperature Affect Hurricane Strength</b>			
School: <b>Holy Family Catholic School</b>	Advisor: <b>Kimberly Pierce</b>		



# Fort Worth Regional Science Fair

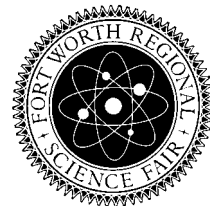
## Winners Directory

Award: **American Meteorological Society/ National Weather Association, NT**

<b>First Place:</b> Stephen E. Chisholm	Division: I	Category: Energy and Transportation	00124
Project: A Comparative Study Of Horizontal Axis Wind Turbine Designs			
School North Texas Academy Of Higher Learning	Advisor Donna Szumilla		

<b>Second Place:</b> Mariah S. Rendeiro	Division: I	Category: Plant Sciences	00187
Project: Ironing Out Global Warming			
School Granbury High School	Advisor Tanner Fain		

# Fort Worth Regional Science Fair Winners Directory

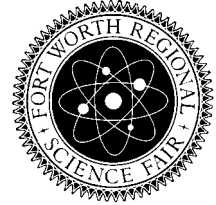


Award: **American Meteorological Society/ National Weather Association, NT**

<b>First Place:</b> Scarlet M. Oakley	Division: <b>II</b>	Category: <b>Mathematical Science</b>	<b>00409</b>
Project: <b>Shall I Compare Thee To A Summer's Day - Part Deux</b>			
School <b>Westlake Academy</b>	Advisor <b>E Golden</b>		

<b>Second Place:</b> Gracie Meek	Division: <b>II</b>	Category: <b>Earth and Planetary Science</b>	<b>00315</b>
Project: <b>Gone With The Wind</b>			
School <b>Liberty Christian School</b>	Advisor <b>Mrs Snowden</b>		

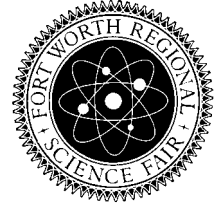
# Fort Worth Regional Science Fair Winners Directory



Award: **American Psychological Association**

<b>First Place:</b> Haylee A. Hughes	Division: <b>I</b>	Category: <b>Behavior and Social Sciences</b>	<b>00009</b>
<b>Project: The Effect Of Age On Short Term Memory Via Visual Stimulus</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Turner</b>		



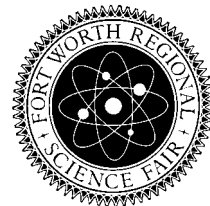


# Fort Worth Regional Science Fair

## Winners Directory

Award: **American Society For Quality**

<b>First Place: Prathibha Juturu</b>	Division: <b>I</b>	Category: <b>Animal Science</b>	<b>00001</b>
Project: <b>Endangered</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Sinclain</b>	
<b>Second Place: Amy W. Lin</b>	Division: <b>I</b>	Category: <b>Mathematical Science</b>	<b>00135</b>
Project: <b>Quantification Of Neural Network Bursting Dynamics Through Statistical Distribution Fitting</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Guenter Gross</b>	
<b>Third Place: Sarika A. Sabnis</b>	Division: <b>I</b>	Category: <b>Mathematical Science</b>	<b>00136</b>
Project: <b>Non-working Class Hero: An Analysis On Unemployment In The United States</b>			
School <b>R.L. Paschal High School</b>		Advisor <b>Wendy Yanney</b>	
<b>Honorable Mention: Zachary M. Cristol</b>	Division: <b>I</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00084</b>
Project: <b>Solar Panel Electrical Output Efficiency By Focusing Light</b>			
School <b>R.L. Paschal High School</b>		Advisor <b>Wendy Yanney</b>	



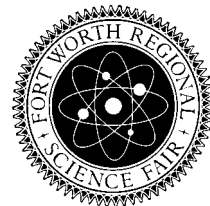
# Fort Worth Regional Science Fair

## Winners Directory

Award: **American Society for Quality**

<b>First Place:</b> Janneke T. DeBoer	Division: <b>II</b>	Category: <b>Plant Sciences</b>	<b>00480</b>
Project: <b>Effects Of Microbes On Growth And Durabiity</b>			
School <b>Christian Cottage Prep</b>	Advisor <b>Teri Willis</b>		
<b>Second Place:</b> Dominick A. Harasimiuk	Division: <b>II</b>	Category: <b>Computer Science</b>	<b>00301</b>
Project: <b>Benchmarking Computer Algorithms</b>			
School <b>St. Elizabeth Ann Seton Catholic School</b>	Advisor <b>Mrs Arnold</b>		
<b>Third Place:</b> Logan M. Zartman	Division: <b>II</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00321</b>
Project: <b>Lifi - Free Space Optical Communication</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Ms Nickolson</b>		
<b>Honorable Mention:</b> Shreyoshi Das	Division: <b>II</b>	Category: <b>Environmental Science</b>	<b>00342</b>
Project: <b>Lighweight Composites From Waste Products</b>			
School <b>Mckamy Middle School</b>	Advisor <b>Casey Hall</b>		

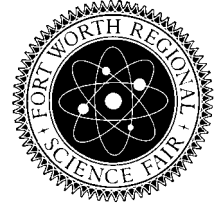
# Fort Worth Regional Science Fair Winners Directory



Award: **ASM International Materials Education Foundation**

<b>First Place: Howei L. Chen</b>	<b>Division: I</b>	<b>Category: Eng: Materials and Bioengin</b>	<b>00110</b>
<b>Project: The Effects Of Graphene Content On The Properties Of Low-density Polyethylene (ldpe)</b>			
<b>School Texas Academy of Mathematics and Sciences</b>	<b>Advisor Dr Sinclain</b>		

# Fort Worth Regional Science Fair Winners Directory

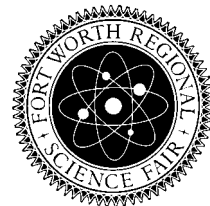


Award: **ASM International Materials Education Foundation**

<b>First Place: Loren A. Weeks</b>	<b>Division: II</b>	<b>Category: Eng: Materials and Bioengin</b>	<b>00381</b>
<b>Project: Standard Vs. High Efficiency Insulation</b>			
<b>School Harmony Academy - Euless</b>		<b>Advisor Mrs Coan</b>	

# Fort Worth Regional Science Fair

## Winners Directory



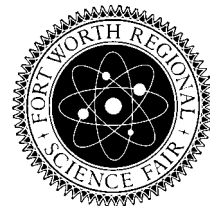
Award: **Association for Women Geoscientists**

<b>First Place:</b> Mariah S. Rendeiro	Division: <b>I</b>	Category: <b>Plant Sciences</b>	<b>00187</b>
Project: <b>Ironing Out Global Warming</b>			
School <b>Granbury High School</b>		Advisor <b>Tanner Fain</b>	

<b>Second Place:</b> Tyler A. Stagner	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02392</b>
Project: <b>The Science Behind Tsunamis</b>			
School <b>Harmony Science Academy</b>		Advisor <b>Turner</b>	

# Fort Worth Regional Science Fair

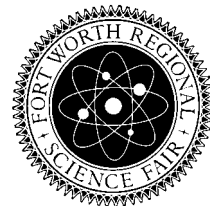
## Winners Directory



Award: **Charlie Mary Noble Award in Astronomy**

<b>First Place:</b> Helen Xiong	Division: <b>I</b>	Category: <b>Physics and Astronomy</b>	<b>00174</b>
<b>Project: Doping Carbon Nanotubes And Organic Solar Cells With Strong Organic Acceptor Molecules</b>			
<b>School Texas Academy of Mathematics and Sciences</b>		<b>Advisor Dr Sinclain</b>	

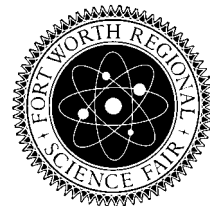
# Fort Worth Regional Science Fair Winners Directory



Award: **Delbert E Lawry Award**

<b>First Place: Frederick N. Amyett</b>	<b>Division: I</b>	<b>Category: Team Project B</b>	<b>02362</b>
<b>Project: Propane Go-kart</b>			
<b>School Azle High School</b>		<b>Advisor Monica Amyett</b>	

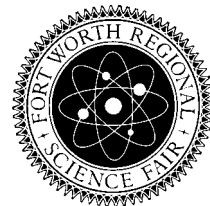
# Fort Worth Regional Science Fair Winners Directory



Award: **Delbert E Lawry Award**

<b>First Place:</b> Aaron L. Dromgoole	Division: <b>II</b>	Category: <b>Energy and Transportation</b>	<b>00396</b>
Project: <b>Tire Prep - Nitrogen Vs Oxygen</b>			
School <b>Harmony Academy - Euless</b>		Advisor <b>Elizabeth Triplett</b>	





# Fort Worth Regional Science Fair

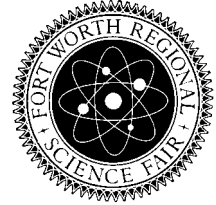
## Winners Directory

Award: **Devon Energy Corporation**

<b>First Place: Rusheel Guduru</b>	Division: <b>I</b>	Category: <b>Eng: Materials and Bioengin</b>	<b>00107</b>
Project: <b>Flow Energy Harvesting Through The Novel Usage Of Carbon Nanotube Yarns</b>			
School <b>Texas Academy of Mathematics and Sciences</b>	Advisor <b>Ben Owens</b>		

<b>Second Place: Stephen E. Chisholm</b>	Division: <b>I</b>	Category: <b>Energy and Transportation</b>	<b>00124</b>
Project: <b>A Comparative Study Of Horizontal Axis Wind Turbine Designs</b>			
School <b>North Texas Academy Of Higher Learning</b>	Advisor <b>Donna Szumilla</b>		

<b>Third Place: Humza Mohammad</b>	Division: <b>I</b>	Category: <b>Energy and Transportation</b>	<b>00126</b>
Project: <b>Production Of Bioethanol From Starch Plants</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Turner</b>		



# Fort Worth Regional Science Fair

## Winners Directory

Award: **Devon Energy Corporation**

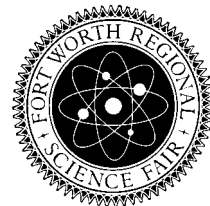
<b>First Place: Katelyne Halovanic</b>	<b>Division: II</b>	<b>Category: Eng:Electrical and Mechani</b>	<b>00324</b>
<b>Project: Do You Have Dirty Carpet?</b>			
<b>School Liberty Christian School</b>	<b>Advisor Mrs Snowden</b>		

<b>Second Place: Shayna A. Kisin</b>	<b>Division: II</b>	<b>Category: Environmental Science</b>	<b>00356</b>
<b>Project: Fuel Up And Go</b>			
<b>School Sue Crouch Intermediate</b>	<b>Advisor Tauna Lowry</b>		

<b>Third Place: Edwin E. Popaja</b>	<b>Division: II</b>	<b>Category: Eng:Electrical and Mechani</b>	<b>00336</b>
<b>Project: Perfect Propellers</b>			
<b>School Harmony Academy - Euless</b>	<b>Advisor Elizabeth Triplett</b>		

# Fort Worth Regional Science Fair

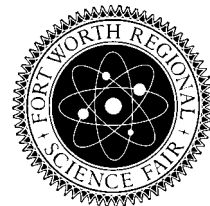
## Winners Directory



Award: **Fort Worth Area Psychological Association**

<b>First Place: Samantha M. Spence</b>	Division: <b>I</b>	Category: <b>Behavior and Social Sciences</b>	<b>00011</b>
Project: <b>The Effect Color Has On The Recognition Of Emotions In Humans</b>			
School <b>Northwest High School</b>	Advisor <b>Mrs Compher</b>		

<b>Second Place: Crystal D. Dawson</b>	Division: <b>I</b>	Category: <b>Behavior and Social Sciences</b>	<b>00014</b>
Project: <b>Morality: Does Gender Matter?</b>			
School <b>Northwest High School</b>	Advisor <b>Mrs Compher</b>		



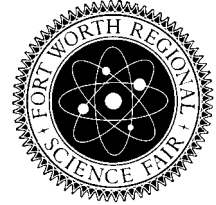
# Fort Worth Regional Science Fair Winners Directory

Award: **Fort Worth Area Psychological Association**

<b>First Place: Jessie A. Park</b>	<b>Division: II</b>	<b>Category: Behavior and Social Sciences</b>	<b>00261</b>
<b>Project: Can You Remember?</b>			
<b>School Harmony Academy - Euless</b>	<b>Advisor Mrs Coan</b>		

<b>Second Place: Dolores A. Owens</b>	<b>Division: II</b>	<b>Category: Behavior and Social Sciences</b>	<b>00251</b>
<b>Project: The Stroop Effect</b>			
<b>School Harmony Science Academy</b>	<b>Advisor Terri Lira</b>		

# Fort Worth Regional Science Fair Winners Directory



Award: **Fort Worth Audubon Society**

**First Place: Prathibha Juturu**

Division: **I**    Category: **Animal Science**

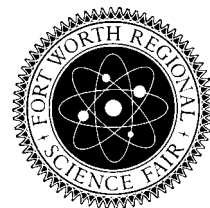
**00001**

Project: **Endangered**

School **Texas Academy of Mathematics and Sciences**

Advisor **Dr Sinclain**

# Fort Worth Regional Science Fair Winners Directory



Award: **Fort Worth Audubon Society**

**First Place: Ben Pierce**

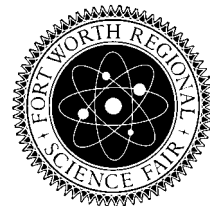
Division: **II** Category: **Environmental Science**

**00358**

Project: **From Pollywog To Frog**

School **Liberty Christian School**

Advisor **Lisa Deaver**



# Fort Worth Regional Science Fair

## Winners Directory

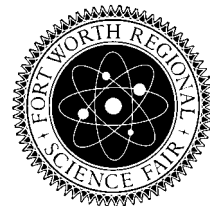
Award: **Institute of Electrical and Electronics Engineers**

<b>First Place:</b> Alexander K. Cheng	Division: I	Category: Eng:Electrical and Mechani	00075
Project: Preventing Vehicle Related Collisions And Fatalities With Invisi-shield			
School Texas Academy of Mathematics and Sciences	Advisor Dr Sinclain		

<b>Second Place:</b> Stephen E. Chisholm	Division: I	Category: Energy and Transportation	00124
Project: A Comparative Study Of Horizontal Axis Wind Turbine Designs			
School North Texas Academy Of Higher Learning	Advisor Donna Szumilla		

# Fort Worth Regional Science Fair

## Winners Directory



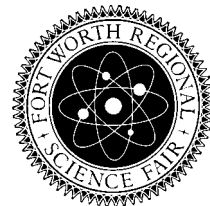
Award: **Institute of Electrical and Electronics Engineers**

<b>First Place: Logan M. Zartman</b>	<b>Division: II</b>	<b>Category: Eng:Electrical and Mechani</b>	<b>00321</b>
<b>Project: Lifi - Free Space Optical Communication</b>			
<b>School Harmony Science Academy</b>		<b>Advisor Ms Nickolson</b>	

<b>Second Place: Cameron Mercurio</b>	<b>Division: II</b>	<b>Category: Environmental Science</b>	<b>00343</b>
<b>Project: Which Type Of Ocean Wave Energy Converter Produces The Most Power</b>			
<b>School Harmony Science Academy</b>		<b>Advisor Ms Nickolson</b>	

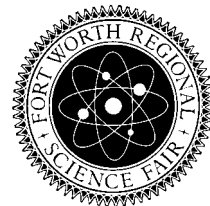


# Fort Worth Regional Science Fair Winners Directory



Award: **Intel Excellence in Computer Science**

<b>First Place: Danny D. McGill</b>	<b>Division: I</b>	<b>Category: Computer Science</b>	<b>00059</b>
<b>Project: 2d Platform Game</b>			
<b>School: Azle High School</b>	<b>Advisor: Monica Amyett</b>		



# Fort Worth Regional Science Fair

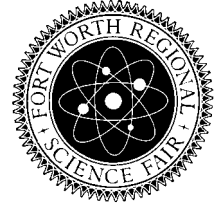
## Winners Directory

Award: **Lockheed Martin Aeronautics Company**

<b>First Place: Nihal R. Koduri</b>	Division: <b>I</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00078</b>
Project: <b>Developing A Resistive Strain Sensor Using Biscrolled Yarn</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Sinclain</b>	

<b>Second Place: Yashvanth K. Poondla</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02271</b>
Project: <b>Composites Of Chemically Modified Fibers</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Ben Owens</b>	
<b>Second Place: Larry A. Xiao</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02272</b>
Project: <b>Composites Of Chemically Modified Fibers</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Ben Owens</b>	

<b>Third Place: Janice K. Jiang</b>	Division: <b>I</b>	Category: <b>Team Project A</b>	<b>02042</b>
Project: <b>Electrochemical Synthesis Of Hydroxyapatite Coatings For Increased Biocompatibility Of Surgical Stainless Steel</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Fleming</b>	
<b>Third Place: Lynn Guan</b>	Division: <b>I</b>	Category: <b>Team Project A</b>	<b>02041</b>
Project: <b>Electrochemical Synthesis Of Hydroxyapatite Coatings For Increased Biocompatibility Of Surgical Stainless Steel</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Fleming</b>	



# Fort Worth Regional Science Fair

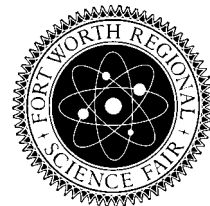
## Winners Directory

Award: **Lockheed Martin Aeronautics Company**

<b>First Place:</b> Christopher A. Pitts	Division: <b>II</b>	Category: <b>Plant Sciences</b>	<b>00474</b>
Project: <b>The Effect Of Growth Hormone On Irradiated Phaseolus Lunatus</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Ms Nickolson</b>		

<b>Second Place:</b> Logan M. Zartman	Division: <b>II</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00321</b>
Project: <b>Lifi - Free Space Optical Communication</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Ms Nickolson</b>		

<b>Third Place:</b> Jasmine A. Orantes	Division: <b>II</b>	Category: <b>Chemistry</b>	<b>00298</b>
Project: <b>Now You C It Now You Don't What Are The Effects Of Thermic Temperatures On Vitamin C Content In Fruits And Vegetables?</b>			
School <b>Christian Cottage Prep</b>	Advisor <b>Teri Willis</b>		



# Fort Worth Regional Science Fair

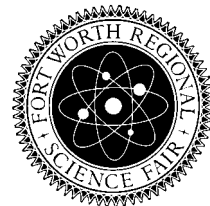
## Winners Directory

Award: **Lockheed Martin Aeronautics Leadership Association**

<b>First Place:</b> Alyssa K. Malone	Division: I	Category: Eng:Electrical and Mechani	00079
Project: <b>Saving Our Future: Building A Better Safety Seat</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Petta</b>		

<b>Second Place:</b> Jianing Jenny He	Division: I	Category: Environmental Science	00092
Project: <b>Bailey: Improving Btex Detection Using Membrane-introduction Mass Spectrometry (lims)</b>			
School <b>Texas Academy of Mathematics and Sciences</b>	Advisor <b>Ben Owens</b>		

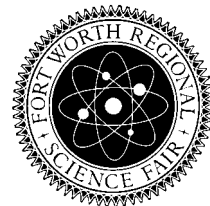
# Fort Worth Regional Science Fair Winners Directory



Award: **Lockheed Martin Aeronautics Leadership Association**

<b>First Place: Eman Alasadi</b>	<b>Division: II</b>	<b>Category: Microbiology</b>	<b>00451</b>
<b>Project: Development Of Biofilm With Streptococcus Mutans</b>			
<b>School Harmony Science Academy</b>	<b>Advisor Stephanie Elias</b>		

<b>Second Place: Jennifer S. Ochoa</b>	<b>Division: II</b>	<b>Category: Team Project A</b>	<b>04923</b>
<b>Project: An Understanding Of Biodiversity Within The Cities Of Tarrant County</b>			
<b>School Applied Learning Academy</b>	<b>Advisor Denise Gordon</b>		



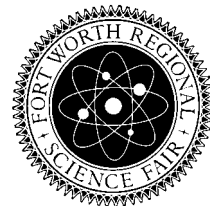
# Fort Worth Regional Science Fair Winners Directory

Award: **Lone Star Solutions**

<b>First Place: Humza Mohammad</b>	Division: <b>I</b>	Category: <b>Energy and Transportation</b>	<b>00126</b>
Project: <b>Production Of Bioethanol From Starch Plants</b>			
School <b>Harmony Science Academy</b>		Advisor <b>Turner</b>	

<b>Second Place: Caren M. Stuebe</b>	Division: <b>I</b>	Category: <b>Team Project A</b>	<b>02013</b>
Project: <b>Does The Apple Fall From The Tree?</b>			
School <b>Northwest High School</b>		Advisor <b>Mrs Compher</b>	
<b>Second Place: Kaylyn R. Barrett</b>	Division: <b>I</b>	Category: <b>Team Project A</b>	<b>02011</b>
Project: <b>Does The Apple Fall From The Tree?</b>			
School <b>Northwest High School</b>		Advisor <b>Mrs Compher</b>	
<b>Second Place: Cassidy A. Knight</b>	Division: <b>I</b>	Category: <b>Team Project A</b>	<b>02012</b>
Project: <b>Does The Apple Fall From The Tree?</b>			
School <b>Northwest High School</b>		Advisor <b>Mrs Compher</b>	

# Fort Worth Regional Science Fair Winners Directory

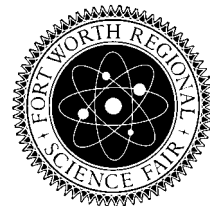


Award: **Lone Star Solutions**

<b>First Place:</b> <b>Caroline J. Adair</b>	<b>Division: II</b>	<b>Category: Environmental Science</b>	<b>00351</b>
<b>Project: The Chemical And Biological Analysis Of Lake Worth's Water Quality</b>			
<b>School Applied Learning Academy</b>	<b>Advisor Denise Gordon</b>		

<b>Second Place:</b> <b>Harrison K. Oakley</b>	<b>Division: II</b>	<b>Category: Mathematical Science</b>	<b>00410</b>
<b>Project: Global Warming: A Tale Of Two Cities</b>			
<b>School Westlake Academy</b>	<b>Advisor Mrs Jernigan</b>		

# Fort Worth Regional Science Fair Winners Directory

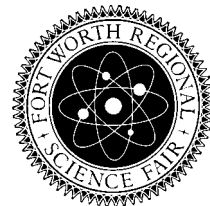


Award: **Mu Alpha Theta**

<b>First Place: George Qi</b>	<b>Division: I</b>	<b>Category: Mathematical Science</b>	<b>00133</b>
<b>Project: Attainability Analysis On The Chromatic Numbers Of Functigraphs</b>			
<b>School Texas Academy of Mathematics and Sciences</b>		<b>Advisor Ben Owens</b>	



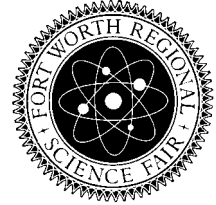
# Fort Worth Regional Science Fair Winners Directory



Award: **National Oceanic & Atmospheric Administration**

<b>First Place:</b> Mariah S. Rendeiro	Division: <b>I</b>	Category: <b>Plant Sciences</b>	<b>00187</b>
Project: <b>Ironing Out Global Warming</b>			
School <b>Granbury High School</b>		Advisor <b>Tanner Fain</b>	

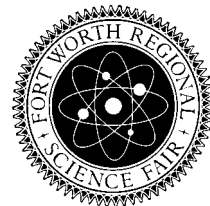
# Fort Worth Regional Science Fair Winners Directory



Award: **National Society of Professional Engineering**

<b>First Place:</b> Alyssa K. Malone	Division: <b>I</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00079</b>
<b>Project: Saving Our Future: Building A Better Safety Seat</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Petta</b>		

# Fort Worth Regional Science Fair Winners Directory



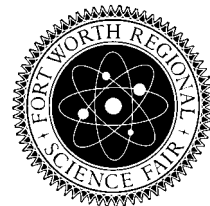
Award: **Radio Shack Corporation**

<b>First Place:</b> Alexander K. Cheng	Division: I	Category: Eng:Electrical and Mechani	00075
Project: Preventing Vehicle Related Collisions And Fatalities With Invisi-shield			
School Texas Academy of Mathematics and Sciences	Advisor Dr Sinclain		

<b>Second Place:</b> Jose Gonzalez	Division: I	Category: Eng:Electrical and Mechani	00087
Project: Laser Audio			
School Everman High School	Advisor L.R. Ritchie		

# Fort Worth Regional Science Fair

## Winners Directory

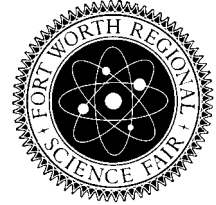


Award: **Radio Shack Corporation**

<b>First Place: Logan M. Zartman</b>	Division: <b>II</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00321</b>
Project: <b>Lifi - Free Space Optical Communication</b>			
School <b>Harmony Science Academy</b>		Advisor <b>Ms Nickolson</b>	

<b>Second Place: Yaseem Rana</b>	Division: <b>II</b>	Category: <b>Energy and Transportation</b>	<b>00387</b>
Project: <b>The Effect Of Faraday's Law Of Induction On Harnessing Energy</b>			
School <b>Harmony Science Academy</b>		Advisor <b>Ms Nickolson</b>	

# Fort Worth Regional Science Fair Winners Directory

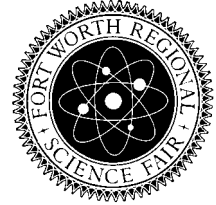


Award: **Ricoh Sustainable Development Award**

<b>First Place:</b> Grant M. Pham	Division: I	Category: Eng:Electrical and Mechani	00082
Project: <b>Cost-competitive With Coal-fired Electricity: Clean-energy Electric Generator Integrated With Home Heating And Cooling</b>			
School <b>Arlington High School</b>	Advisor <b>Michael Roark</b>		

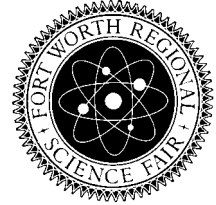
# Fort Worth Regional Science Fair

## Winners Directory



Award: **Sigma Kappa Marge Barnes Award in Medicine & Health**

<b>First Place:</b> Ari S. Gao	Division: I	Category: Medicine and Health	00151
<b>Project: Somatostatin Receptors On Primary Cilia Protect Brain From Excitotoxic Injury During Seizures</b>			
School Texas Academy of Mathematics and Sciences		Advisor Jannon Fuchs	

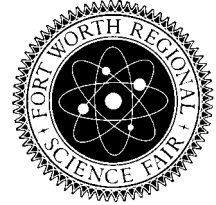


# Fort Worth Regional Science Fair

## Winners Directory

Award: **Society of Allied Weight Engineers**

<b>First Place: Santosh K. Murugan</b>	Division: <b>I</b>	Category: <b>Eng: Materials and Bioengin</b>	<b>00114</b>
Project: <b>Bioresorbable Composite Scaffolds For Guided Tissue Regeneration</b>			
School <b>Trinity Valley School</b>		Advisor <b>Jennifer Cooke</b>	
<hr/>			
<b>Second Place: Vaibhav Gupta</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02232</b>
Project: <b>Bottled Up I I</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Peter Collins</b>	
<b>Second Place: Hua-hsin Tai</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02233</b>
Project: <b>Bottled Up I I</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Peter Collins</b>	
<b>Second Place: Jonathan Zhu</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02231</b>
Project: <b>Bottled Up I I</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Peter Collins</b>	



# Fort Worth Regional Science Fair

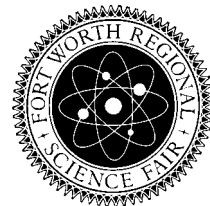
## Winners Directory

Award: **Society of Allied Weight Engineers**

<b>First Place:</b> <b>Concepcion C. Appio-Riley</b>	<b>Division: II</b>	<b>Category: Energy and Transportation</b>	<b>00392</b>
Project: <b>Why Winglets</b>			
School <b>Harmony School Of Innovation</b>		Advisor <b>Jun Guo</b>	

<b>Second Place:</b> <b>Dusty A. Anglin</b>	<b>Division: II</b>	<b>Category: Team Project B</b>	<b>05171</b>
Project: <b>Hoverin' Around</b>			
School <b>Caddo Grove Elementary</b>		Advisor <b>Toni Worden</b>	
<b>Second Place:</b> <b>Elan S. Sealy</b>	<b>Division: II</b>	<b>Category: Team Project B</b>	<b>05172</b>
Project: <b>Hoverin' Around</b>			
School <b>Caddo Grove Elementary</b>		Advisor <b>Toni Worden</b>	





# Fort Worth Regional Science Fair

## Winners Directory

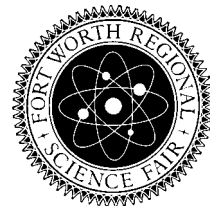
Award: **Society of Flight Test Engineers**

<b>First Place:</b> Stephen E. Chisholm	Division: I	Category: Energy and Transportation	00124
Project: A Comparative Study Of Horizontal Axis Wind Turbine Designs			
School: North Texas Academy Of Higher Learning	Advisor: Donna Szumilla		

<b>Second Place:</b> Gracie F. Harrel	Division: I	Category: Physics and Astronomy	00183
Project: Do Fins Really Matter			
School: Harmony Science Academy	Advisor: Spaeder		

# Fort Worth Regional Science Fair

## Winners Directory

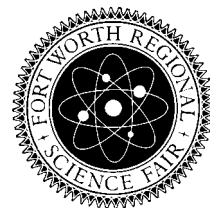


Award: **Society of Flight Test Engineers**

<b>First Place:</b> Concepcion C. Appio-Riley	Division: <b>II</b>	Category: <b>Energy and Transportation</b>	<b>00392</b>
Project: <b>Why Winglets</b>			
School <b>Harmony School Of Innovation</b>		Advisor <b>Jun Guo</b>	

<b>Second Place:</b> Edwin E. Popaja	Division: <b>II</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00336</b>
Project: <b>Perfect Propellers</b>			
School <b>Harmony Academy - Euless</b>		Advisor <b>Elizabeth Triplett</b>	

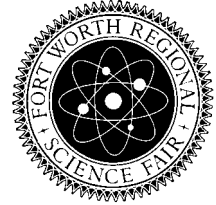
# Fort Worth Regional Science Fair Winners Directory



Award: **U.S. Air Force**

<b>First Place: Jianing Jenny He</b>	Division: <b>I</b>	Category: <b>Environmental Science</b>	<b>00092</b>
Project: <b>Bailey: Improving Btex Detection Using Membrane-introduction Mass Spectrometry (lims)</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Ben Owens</b>	

<b>Second Place: Mariah S. Rendeiro</b>	Division: <b>I</b>	Category: <b>Plant Sciences</b>	<b>00187</b>
Project: <b>Ironing Out Global Warming</b>			
School <b>Granbury High School</b>		Advisor <b>Tanner Fain</b>	



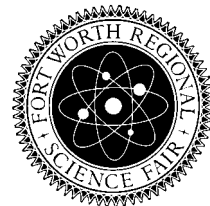
# Fort Worth Regional Science Fair

## Winners Directory

Award: **U.S. Army**

<b>First Place:</b> Tina M. Chu	Division: I	Category: <b>Biochemistry</b>	<b>00034</b>
Project: <b>Determining The Absolute Molecular Length Of Tropomyosin</b>			
School <b>Texas Academy of Mathematics and Sciences</b>	Advisor <b>Root</b>		
<b>First Place:</b> Shree Bose	Division: I	Category: <b>Mathematical Science</b>	<b>00132</b>
Project: <b>Epidemic: Modeling The Global Spread Of Totally Drug Resistant Tuberculosis</b>			
School <b>Fort Worth Country Day</b>	Advisor <b>Hamilton</b>		
<b>First Place:</b> Crystal D. Dawson	Division: I	Category: <b>Behavior and Social Sciences</b>	<b>00014</b>
Project: <b>Morality: Does Gender Matter?</b>			
School <b>Northwest High School</b>	Advisor <b>Mrs Compher</b>		
<b>First Place:</b> Alyssa K. Malone	Division: I	Category: <b>Eng:Electrical and Mechani</b>	<b>00079</b>
Project: <b>Saving Our Future: Building A Better Safety Seat</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Petta</b>		
<b>First Place:</b> Anthony M. Salvitti	Division: I	Category: <b>Physics and Astronomy</b>	<b>00179</b>
Project: <b>Strongest Fishing Knots And Lines</b>			
School <b>Harmony Science Academy</b>	Advisor <b>Turner</b>		

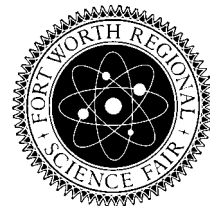
# Fort Worth Regional Science Fair Winners Directory



Award: **U.S. Environmental Protection Agency**

<b>First Place: Jianing Jenny He</b>	<b>Division: I</b>	<b>Category: Environmental Science</b>	<b>00092</b>
<b>Project: Bailey: Improving Btex Detection Using Membrane-introduction Mass Spectrometry (lims)</b>			
<b>School Texas Academy of Mathematics and Sciences</b>		<b>Advisor Ben Owens</b>	

# Fort Worth Regional Science Fair Winners Directory

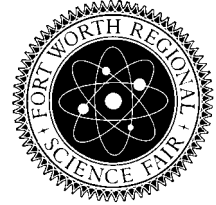


Award: **U.S. Environmental Protection Agency**

<b>First Place: Shreyoshi Das</b>	Division: <b>II</b>	Category: <b>Environmental Science</b>	<b>00342</b>
Project: <b>Lighweight Composites From Waste Products</b>			
School <b>Mckamy Middle School</b>		Advisor <b>Casey Hall</b>	

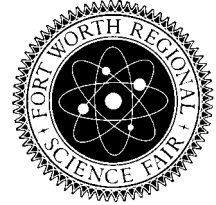
<b>Second Place: Yaseem Rana</b>	Division: <b>II</b>	Category: <b>Energy and Transportation</b>	<b>00387</b>
Project: <b>The Effect Of Faraday's Law Of Induction On Harnessing Energy</b>			
School <b>Harmony Science Academy</b>		Advisor <b>Ms Nickolson</b>	

# Fort Worth Regional Science Fair Winners Directory



Award: **U.S. Metric Association**

<b>First Place: Santosh K. Murugan</b>	<b>Division: I</b>	<b>Category: Eng: Materials and Bioengin</b>	<b>00114</b>
<b>Project: Bioresorbable Composite Scaffolds For Guided Tissue Regeneration</b>			
<b>School Trinity Valley School</b>	<b>Advisor Jennifer Cooke</b>		



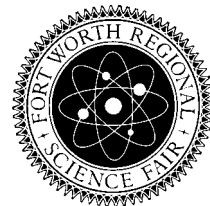
# Fort Worth Regional Science Fair

## Winners Directory

Award: **U.S. Navy / U.S. Marine Corps**

<b>First Place: Stephen E. Chisholm</b>	Division: <b>I</b>	Category: <b>Energy and Transportation</b>	<b>00124</b>
Project: <b>A Comparative Study Of Horizontal Axis Wind Turbine Designs</b>			
School <b>North Texas Academy Of Higher Learning</b>		Advisor <b>Donna Szumilla</b>	
<b>First Place: Prawal Sharma</b>	Division: <b>I</b>	Category: <b>Microbiology</b>	<b>00162</b>
Project: <b>Bacteria Resistance To Antibiotics</b>			
School <b>Harmony Academy - Euless</b>		Advisor <b>Mrs Miller</b>	
<b>First Place: Peter C. Mueller</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02241</b>
Project: <b>Cabin Fever</b>			
School <b>Granbury High School</b>		Advisor <b>Ms Jackson</b>	
<b>First Place: Riley Summer</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02242</b>
Project: <b>Cabin Fever</b>			
School <b>Granbury High School</b>		Advisor <b>Ms Jackson</b>	
<b>First Place: Amy W. Lin</b>	Division: <b>I</b>	Category: <b>Mathematical Science</b>	<b>00135</b>
Project: <b>Quantification Of Neural Network Bursting Dynamics Through Statistical Distribution Fitting</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Guenter Gross</b>	
<b>First Place: Kai Yue</b>	Division: <b>I</b>	Category: <b>Physics and Astronomy</b>	<b>00173</b>
Project: <b>Stop And Stare: A Novel Approach To Three Dimensional Xray Processing</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Sinclain</b>	





# Fort Worth Regional Science Fair

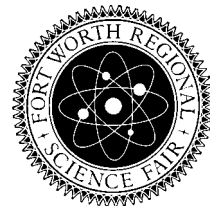
## Winners Directory

Award: **Water Environment Association of Texas**

<b>First Place: Richa Humagain</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02261</b>
Project: <b>Cheap And Efficient Methods Of Cleaning Bacteria From Water</b>			
School <b>Harmony Academy - Euless</b>		Advisor <b>Elizabeth Triplett</b>	
<b>First Place: Anuka Dhakal</b>	Division: <b>I</b>	Category: <b>Team Project B</b>	<b>02262</b>
Project: <b>Cheap And Efficient Methods Of Cleaning Bacteria From Water</b>			
School <b>Harmony Academy - Euless</b>		Advisor <b>Elizabeth Triplett</b>	
<b>Second Place: Emran Shafaq</b>	Division: <b>I</b>	Category: <b>Microbiology</b>	<b>00164</b>
Project: <b>The Effect Of Caffeine On The Growth Of E.coli</b>			
School <b>Harmony Science Academy</b>		Advisor <b>Yusuf Akpinar</b>	
<b>Third Place: Victoria A. Dorch</b>	Division: <b>I</b>	Category: <b>Environmental Science</b>	<b>00090</b>
Project: <b>Cleaning Up Our Waters</b>			
School <b>Harmony Academy - Euless</b>		Advisor <b>Elizabeth Triplett</b>	

# Fort Worth Regional Science Fair

## Winners Directory



Award: **Yale Science & Engineering Association**

<b>First Place:</b> Nihal R. Koduri	Division: <b>I</b>	Category: <b>Eng:Electrical and Mechani</b>	<b>00078</b>
<b>Project: Developing A Resistive Strain Sensor Using Biscrolled Yarn</b>			
School <b>Texas Academy of Mathematics and Sciences</b>		Advisor <b>Dr Sinclain</b>	