

## SCIENCE EDUCATION AWARD WINNERS

### **2015-2016**

Keystone School	1 <sup>st</sup> Place
<i>Layne Steinhelper: On Shaky Ground</i>	
KIPP University Preps	2 <sup>nd</sup> Place
<i>John Cordier: Sugar, Fats, Proteins: What's really in the foods we eat?</i>	
East Warren High School	3 <sup>rd</sup> Place
<i>Sarah Thompson: Flipping the Switch: Hands on Electricity</i>	
St. Mary's Hall	4 <sup>th</sup> Place
<i>Devon Lee: Investigation of Jellyfish Blooms and Life History Strategies of Aurella aurita</i>	
Alamo Heights High School	5 <sup>th</sup> Place
<i>Colin Lang: Godard Level Rocket NASA Mission Payload Year II</i>	

### **2014-2015**

Brooks Academy of Science & Engineering	1 <sup>st</sup> Place
<i>Jose Ayala: Soil Phage and Pecan Tree Diversity: Is There a Relationship?</i>	
Saint Mary's Hall	2 <sup>nd</sup> Place
<i>Devon M. Lee: Proteomics and Evolutionary Relationships</i>	
Keystone School	3 <sup>rd</sup> Place
<i>Layne Steinhelper: Robots: They're Not Just for Physics Anymore</i>	
KIPP University Prep	4 <sup>th</sup> Place
<i>John Cordier: Infrared Spectroscopy</i>	
William J. Brennan High School	5 <sup>th</sup> Place
<i>Monica Gonzalez: A Problem Based Learning Approach in Teaching Medical Microbiology</i>	
McCollum High School	Honorable Mention
<i>Elizabeth Perez-Gonzales: Water Monitoring</i>	

### **2013-2014**

Brooks Academy of Science & Engineering	1 <sup>st</sup> Place
<i>Jose Ayala: Traditional Mexican Medicine...</i>	
McCollum High School	2 <sup>nd</sup> Place
<i>Andrew Martinez: Cellular Respiration in Multicultural Organisms</i>	
McCollum High School	3 <sup>rd</sup> Place
<i>Edward Kinnear: Prosthetic Robotic Hand Build Off</i>	
STEM Academy at Robert E. Lee High School	4 <sup>th</sup> Place
<i>Robin Howard: Can Current Hydroponic Systems be used to Determine the Synergistic/ Allelopathic Effects of PGR's?</i>	
Young Women's Leadership Academy	5 <sup>th</sup> Place
<i>Nina Slote: Growing Environmental Literacy in a Greenhouse</i>	
Samuel V. Champion High School	Honorable Mention
<i>Eric Madrid: Renewal of Outdoor Research Facilities</i>	

### **2012-2013**

Medina Valley High School	1 <sup>st</sup> Place tie
<i>Gerri Butler: Forensic Anthropology: Investigating Human Bones</i>	
Alamo Heights High School	1 <sup>st</sup> Place tie
<i>Colin Lang: Aeroscience Studies, Goddard Level</i>	
Keystone School	3 <sup>rd</sup> Place
<i>Layne Steinhelper: Toying with Energy</i>	
Edison High School	4 <sup>th</sup> Place

*Alexandra Rios: Scientist, Framing the Pathway to Science Careers*  
Keystone School 5<sup>th</sup> Place  
*Jason Nydegger: Autoclave Funding*  
Robert E. Lee High School Honorable Mention  
*Robin Howard: Sustainable Agriculture Combined with Aquatics for Aquaponics System*

**2011-2012**

Samuel Clemens High School 1<sup>st</sup> Place  
*Ronnie Kerchhoff: Can Microalgae be Produced as a Cost Effective Alternative Biofuel?*  
Byron P. Steele II High School 2<sup>nd</sup> Place  
*Marvin Rudd: Fish Farm & Hydroponic Garden*  
STEM RAM Academy at Robert E. Lee High School 3<sup>rd</sup> Place

*Robin Howard: "Can purified recombinant proteins from Borrelia burgdorferi be tested and developed into an effective therapy for the treatment of Lyme disease?"*  
 Keystone School 4<sup>th</sup> Place  
*Jason Nydegger: Student investigations into digital logic and varying electromagnetics*  
 Samuel Clemens High School 5<sup>th</sup> Place  
*Helen Whisenhunt: Physics First*  
 John Jay Science & Engineering Academy Honorable Mention  
*Aja Gardner: Mini Medical School*

**2010-2011**

James Madison High School 1<sup>st</sup> Place  
*Deborah Parker: Up, Up, and Away. Investigating Gas Laws*  
 William Howard Taft High School 2<sup>nd</sup> Place  
*Pamela Maldonado: Skulling Around*  
 East Central High School 3<sup>rd</sup> Place  
*Brenda Kiolbassa Miller: East Central Riparian Area Monitoring Project*  
 Alamo Heights High School 4<sup>th</sup> Place  
*Colin Lang: Aeroscience Studies (Goddard Level)*  
 Keystone School 5<sup>th</sup> Place  
*Layne Steinhelper: Molecular Genetics*  
 Samuel Clemens High School Honorable Mention  
*Ronnie Kirchof: Utilization of an "Outdoor Classroom" to  
 Conduct Field Laboratory Investigations in an Environmental Systems Course*

**2009-2010**

John Jay Science Academy 1<sup>st</sup> Place  
*Michael J. Scully: The Purple Martin Research Center*  
 Keystone School 2<sup>nd</sup> Place  
*Layne Steinhelper: Long-Term Urban Forest Project*  
 Byron P. Steele II High School 3<sup>rd</sup> Place  
*Marvin Rudd: Water Quality Analysis of the Cibolo*  
 Keystone School 4<sup>th</sup> Place  
*Jason Nydegger: CO2 Incubator for Botanical / Environmental  
 & Mammalian Tissue Culture Studies*  
 Pleasanton High School 5<sup>th</sup> Place  
*Joe Ingle and Greg Schwab: A Project Based Learning Exercise for the Design  
 and Construction of Four Rainwater Harvesting, Storage and Delivery Systems*  
 San Antonio Christian High School Honorable Mention  
*Deborah Baker: Technology and Karst Topography  
 Connecting Students and Community with GPS*

**2008-2009**

Byron P. Steele High School 1<sup>st</sup> Place  
*Alan Spannagel: Physical Properties of Plastic Fragments*  
 McCollum High School 2<sup>nd</sup> Place  
*Brenda Carillo: Building Biological Concepts*  
 South San Antonio High School 3<sup>rd</sup> Place  
*Pete Alaniz: Investigating Pond Systems*  
 Byron P. Steele High School 4<sup>th</sup> Place

<i>Marvin Rudd: Polymerase Chain Reaction &amp; Comparative Protein Analysis Lab</i>	5 <sup>th</sup> Place
Keystone School	
<i>Layne Steinhelper: Soil Microplates / Microplate Reader</i>	
Alamo Heights High School	Honorable Mention
<i>Colin Lang: Aeroscience Studies</i>	

### 2007-2008

Medina Valley High School	1 <sup>st</sup> Place
<i>Tanner Lange: Aeroscience Studies</i>	
Harlandale High School	2 <sup>nd</sup> Place
<i>Mario Gamboa: Using Biochemistry in AP Biology</i>	
Samuel Clemens High School	3 <sup>rd</sup> Place
<i>Ronnie Kirchof: Aquaponics-Can Aquaculture and Hydroponics Coexist in a Closed System?</i>	
East Central High School	4 <sup>th</sup> Place
<i>Heidi Zertuche: Environmental Science: Pond Ecosystem</i>	
San Antonio Christian School	5 <sup>th</sup> Place
<i>Deborah Baker: C.S.I. Lab Materials</i>	
Breckenridge High School	Honorable Mention
<i>Jennifer Bessonette: You Are What You Eat-A Study of the Structure and Function of Biomolecular</i>	

### 2006-2007

Cotulla High School	1 <sup>st</sup> Place
<i>Lawrence Rinehart: Hydromania</i>	
Breckenridge High School	2 <sup>nd</sup> Place
<i>Jennifer Bessonette: Microscopy</i>	
Byron P. Steele High School	3 <sup>rd</sup> Place
<i>Robin Williams: How Age, Weight, and Stress Affect the Body</i>	
Holy Cross High School	4 <sup>th</sup> Place
<i>Yolanda Woods: Ethnobotany Exploration</i>	
Keystone School	Honorable Mention
<i>Layne Steinhelper: Spectrophotometer</i>	

### 2005-2006

Brackenridge High School	1 <sup>st</sup> Place
<i>Jennifer Bessonette: Mini-Med School: Education Students About Community Health Issues</i>	
Health Careers High School	2 <sup>nd</sup> Place
<i>Karen Forsberg: Horizontal and Vertical Gel Electrophoresis</i>	
Cibolo Alternative Program	3 <sup>rd</sup> Place
<i>Matthew Wagner: Plant Manipulation</i>	
Tom C. Clark High School	4 <sup>th</sup> Place
<i>Marvin Rudd: Fish Farm &amp; Hydroponic Grow Beds</i>	
Byron P. Steele II High School	Honorable Mention
<i>Robin Williams: The REAL Reason Why Seatbelts Work</i>	

### 2004-2005

Samuel Clemens High School	1 <sup>st</sup> Place
<i>Ronnie Kirchof: Effects of Pollution on Aquatic Ecosystems &amp; Groundwater Sources</i>	

Samuel Clemens High School <i>Robin Williams: Integrating Biological Sciences Through Physical Sciences</i>	2 <sup>nd</sup> Place
Alamo Heights High School <i>Norm Collins: Team Approach to Baseball Contraption</i>	3 <sup>rd</sup> Place
George W. Brackenridge High School <i>Jennifer Bessonette: Mammalian Anatomy Survey: A Hands-On Approach</i>	4 <sup>th</sup> Place Tie
TMI – The Episcopal School of Texas <i>Mary Kennedy: Sea Urchin Embryology</i>	4 <sup>th</sup> Place Tie

### 2003-2004

Samuel Clemens High School <i>Ronnie Kirchof: Aquatic science program proposal</i>	1 <sup>st</sup> Place
Cibolo Alternative Program <i>Joseph F. Stuller III: Proposal for data collection equipment, aquatic programs</i>	2 <sup>nd</sup> Place Tie
Samuel Clemens High School <i>Audra Hall: Proposal, physics and chemistry electricity unit supplies</i>	2 <sup>nd</sup> Place Tie

### 2002-2003

Holy Cross of San Antonio <i>Pamela Clarkson proposal</i>	1 <sup>st</sup> Place
Cibolo Alternative Program <i>Joseph F. Stuller III proposal</i>	2 <sup>nd</sup> Place
Robert E. Lee High School <i>Robin Howard proposal</i>	3 <sup>rd</sup> Place
Texas Military Institute <i>Mary Kennedy &amp; Julia Shulman proposal</i>	4 <sup>th</sup> Place
Allison Steele Enhanced Learning Center <i>Julia Burke proposal</i>	Honorable Mention

### 2001-2002

Theodore Roosevelt High School <i>Barbara Simmons proposal</i>	1 <sup>st</sup> Place
Jourdanton High School <i>Connie Nixon proposal</i>	2 <sup>nd</sup> Place
Memorial High School <i>Clara Rodriguez proposal</i>	3 <sup>rd</sup> Place
Keystone School <i>Glen Sobey proposal</i>	4 <sup>th</sup> Place
Harlandale High School <i>Mario Gamboa proposal</i>	Honorable Mention

### 2000-2001

Alamo Heights High School <i>Melissa Braaten Henry proposal</i>	1 <sup>st</sup> Place
James Madison High School <i>Carolene Leibl proposal</i>	2 <sup>nd</sup> Place
Keystone School <i>Glen Sobey proposal</i>	3 <sup>rd</sup> Place
Holmes High School <i>Tony Pierson proposal</i>	4 <sup>th</sup> Place

John Marshall High School <i>Deborah McElreath proposal</i>	Honorable Mention
<b>1999-2000</b>	
Holmes High School <i>Rosalie S. Barber: Ultraviolet Radiation Awareness and Melanoma Program</i>	1 <sup>st</sup> Place
James Madison High School <i>Joyce Svalberg: Buy "River tank" for "living classroom", electrophoresis equipment</i>	2 <sup>nd</sup> Place
James Madison High School <i>Charles Waterman: Equipment to track lung volume, blood pressure, etc. of group of students participating in sports for duration of their 4 years of high school</i>	3 <sup>rd</sup> Place
Texas Military Institute <i>Mary Bishop Kennedy: Long-term Monarch butterfly data project</i>	4 <sup>th</sup> Place
Robert E. Lee High School <i>Robin Howard: DNA and other analytical equipment for Medical Microbiology Lab</i>	Honorable Mention
<b>1998-1999</b>	
John Marshall High School <i>DNA Agarose Electrophoresis</i>	1 <sup>st</sup> Place
McCollum High School <i>Environmental Learning Center</i>	2 <sup>nd</sup> Place
East Central High School <i>Photosynthetic Pigment and Reaction</i>	3 <sup>rd</sup> Place
John F. Kennedy High School <i>Biology &amp; Anatomy</i>	4 <sup>th</sup> Place
John Jay High School <i>Wild Mustang Program</i>	Honorable Mention
<b>1997-1998</b>	
McCollum High School	1 <sup>st</sup> Place
Blessed Sacrament Academy Second Chance High School	2 <sup>nd</sup> Place
East Central High School	3 <sup>rd</sup> Place
Theodore Roosevelt High School	4 <sup>th</sup> Place
John F. Kennedy High School	Honorable Mention
<b>1996-1997</b>	
John Jay High School	1 <sup>st</sup> Place
Theodore Roosevelt High School	2 <sup>nd</sup> Place
Blessed Sacrament Academy Second Chance High School	3 <sup>rd</sup> Place
John F. Kennedy High School	4 <sup>th</sup> Place
<b>1995-1996</b>	
John F. Kennedy High School	1 <sup>st</sup> Place
Theodore Roosevelt High School	2 <sup>nd</sup> Place
Texas Military Institute	3 <sup>rd</sup> Place
Highlands High School	4 <sup>th</sup> Place
<b>1994-1995</b>	
The Winston School	1 <sup>st</sup> Place
James Madison High School	2 <sup>nd</sup> Place

John F. Kennedy High School  
Alamo Heights High School

3<sup>rd</sup> Place  
4<sup>th</sup> Place

**1993-1994**

James Madison High School  
Alamo Heights High School  
Winston Churchill High School  
Antonian College Preparatory

1<sup>st</sup> Place  
2<sup>nd</sup> Place  
3<sup>rd</sup> Place  
4<sup>th</sup> Place







