



# Awards Ceremony

***Congratulations to each of today's participants!***

***Over 500 students at both middle school and high school competed in seventeen science and engineering categories.***

***Students were interviewed, and research projects were evaluated and scored by approximately 125 judges.***



# A special thanks to all of our sponsors who made this event possible .



Peter Lounsbury  
Executive

P.O. BOX 3752 | BROWNSVILLE, TX 77823  
956-574-9000 | 956-546-7891  
peterl@border-tech.com



# Animal Sciences

1. **La Joya ISD: Trevino MS - Hugh Rojas** *"Pit Stop"*  
*Sponsor: Rosie Guajardo*
2. **Weslaco ISD: Central MS - xochitl betancourt** *"the Effects of Vitamins and Minerals on Melanoides Tuberculata"* *Sponsor: David Medina*
3. **Brownsville ISD: Manzano MS - Trina Serrano** *"Insectus Irradiatus"* *Sponsor: Gregory Freitag*
4. **Brownsville ISD: Oliveria MS - Dominique Peralez** *"Stop Bugging Me!"* *Sponsor: Diana Rodriguez*
5. **Brownsville ISD: Manzano MS - Allen Moreno** *"Does It Repel Or Does it Just Smell?"* *Sponsor: Gregory Freitag*



# Behavioral and Social Sciences

- 1. IDEA Public Schools: IDEA - San Benito - Pauline Huff, Reiko Corteza, Shion Ito** *"Are You Smarter Than A Plastic Arm"* Sponsor: Darlene Hernandez
- 2. McAllen ISD: Fossum MS - Dana Graham** *"Unlocking the Mysteries of your Brain"* Sponsor: Amy Gonzalez
- 3. IDEA Public Schools: IDEA - San Benito - Alejandro Garcia, Aidan Guetzow** *"To Sleep or Not to Sleep"* Sponsor: Darlene Hernandez
- 4. Weslaco ISD: Central MS - Gizelle Sosa** *"Does Age Affect Reaction Time"* Sponsor: David Medina
- 5. Weslaco ISD: Mary Hoge MS - Brianna Gutierrez** *"Think Fast"* Sponsor: Melissa Alejandro



# Biochemistry

- 1. La Joya ISD: Saenz MS - Jorge Rodriguez, Karla Diaz**  
*"Soda, Why Bother Get Water" Sponsor: Imelda Dumalaog*
- 2. Brownsville ISD: Manzano MS - Gloria M. Martinez** *"Make That Heart Beat" Sponsor: Melissa Ann Hernandez*
- 3. Brownsville ISD: Stillman MS - Sabrina Rodriguez** *"Bio-Friendly Plastic" Sponsor: Tony Padilla*
- 4. Weslaco ISD: Cuellar - Frank Hernandez, Felix Jimenez**  
*"Yeast Fermentation" Sponsor: Mary Yanez*
- 5. IDEA Public Schools: IDEA - McAllen - David Garcia**  
*"Grandpa's Digestion" Sponsor: Marco Castillo*



# Cellular and Molecular Biology

- 1. Weslaco ISD: B. Garza MS - Kyrie Garlic, Olivia Cellum**  
*"Effects of Carbon Dioxide on Crayfish" Sponsor: Connie Sinoy*
- 2. La Joya ISD: Chavez - Josiah Zapata** *"iFly: The Non-Ionizing Radioactive Effects of Apple Inc. Products on Drosophila Melanogaster"* *Sponsor: Marcus Garcia*
- 3. Brownsville ISD: Besteiro MS - Kiara Garcia** *"Eggmosis"*  
*Sponsor: Aracelie Gutierrez*
- 4. Brownsville ISD: Perkins MS - Sinai Zavala** *"Eggmosis"*  
*Sponsor: Ruth Robles*
- 5. McAllen ISD: Travis MS - Ileana Vela** *"Wrinkles"* *Sponsor: Briana Arzate*



# Chemistry

1. **Harmony Science Academy: Harmony Laredo - Aneesa Mohammed** *"Cross my heart and hope to last longer"*  
Sponsor: BUNYAMIN MURAT
2. **Brownsville ISD: Vela MS - William Brown** *"Hidden Dangers"* Sponsor: Crystal Olvera
3. **Brownsville ISD: Stillman MS - Darshana Raju** *"The Mysteries of Sun Print Paper"* Sponsor: Tony Padilla
4. **Harmony Science Academy: Harmony Brownsville - Evelin Leija** *"Desalinating Water"* Sponsor: Velmarie Osorio
5. **La Joya ISD: Salinas MS - CHARLES LEE** *"METAL MANIA"*  
Sponsor: CHRISTINA O' NEILL





# Computer Science

- 1. McAllen ISD: Morris MS - Adrian Rodriguez** *"Imagination Nation"* Sponsor: Esteban Bravo
- 2. La Joya ISD: Saenz MS - Jasmin Vargas** *"Take A Picture, It'll Last Longer"* Sponsor: Imelda Dumalaog
- 3. La Joya ISD: Salinas MS - GABRIELA SALAZAR** *"CYBER LANGUAGE"* Sponsor: Helen Grace Alejandro
- 4. Brownsville ISD: Perkins MS - Job Guerra** *"Which One? Which One?"* Sponsor: Leonel Castro
- 5. Brownsville ISD: Perkins MS - Misty Martinez, Paola Barrera** *"Letters Everywhere!"* Sponsor: Leonel Castro



# Earth Science

- 1. La Joya ISD: Chavez - Gerardo Villarreal** "*Craters and Meteorites*" *Sponsor: Hilda Saenz*
- 2. McAllen ISD: Fossum MS - Dagoberto Zayas** "*Solar Power Desalination*" *Sponsor: Jannell Tite*
- 3. Weslaco ISD: B. Garza MS - Antonio Cavazos** "*Asteroids: Bullets in Space*" *Sponsor: Juanita Cantu*
- 4. La Joya ISD: Saenz MS - Andre Solis, Bianca Pestrikoff** "*Light Is Bright*" *Sponsor: Imelda Dumalaog*
- 5. Donna ISD: D.M. Saucedo MS - Rogelio Navarro** "*Asteroids Crash*" *Sponsor: James Tauzel*



# Energy and Transportation

- 1. Brownsville ISD: Manzano MS - Rodrigo Caraveo** *"Wings are Such a Drag!"* Sponsor: Gregory Freitag
- 2. Weslaco ISD: Cuellar - Joe Ramirez** *"BioDiesel"* Sponsor: Mary Yanez
- 3. McAllen ISD: Fossum MS - Shaena Reyes** *"The Mpemba Effect"* Sponsor: Diana Garza
- 4. McAllen ISD: Cathey MS - Lorena Troyo, Aubry Guerra** *"Pizza Box Solar Oven"* Sponsor: Brandon Vail
- 5. Donna ISD: D.M. Saucedo MS - Joel Guerrero, Julio Valdez** *"Battery Charge!"* Sponsor: Paulita Handy



# Engineering: Electrical/Mechanical

- 1. IDEA Public Schools: IDEA - McAllen - Nicholas Cuevas**  
*"Hovercraft: Does Volume Effect Hover Time?" Sponsor: Marco Castillo*
- 2. Harmony Science Academy: Harmony Brownsville - Pia Quidlat, Josue Gomez** *"Hydrogen Energy Bubbles" Sponsor: Velmarie Osorio*
- 3. Donna ISD: D.M. Saucedo MS - Raven Gonzalez, Mercedes Castaneda** *"Need A Hand?" Sponsor: James Tauzel*
- 4. Donna ISD: Veterans MS - Marco Pina** *"Battery Down? Charge it up!" Sponsor: Juventino Gomez*
- 5. Weslaco ISD: Cuellar - Alejandro Morales** *"Energy and Magnetism" Sponsor: Mary Yanez*



# Engineering: Materials/Bioengineering

- 1. Weslaco ISD: B. Garza MS - Aaron Cantu** "*Damage Control*"  
*Sponsor: Juanita Cantu*
- 2. McAllen ISD: Fossum MS - Hunter Riley** "*Drop Zone*"  
*Sponsor: Hilda Borrego*
- 3. Brownsville ISD: Vela MS - Bianca Lopez** "*Keep N' It Cool*"  
*Sponsor: Crystal Olvera*
- 4. Brownsville ISD: Lucio MS - MATTHEW J. CORTINAS**  
*"INSULATION EVALUATION"* *Sponsor: MARIA CLAUDIA LARA*
- 5. La Joya ISD: Salinas MS - Carlos Nieto, Jose Solis**  
*"KABOOM"* *Sponsor: Abraham Payne*



# Environmental Management

- 1. Weslaco ISD: Central MS - Ana Laura Trevino** *"White Flies"*  
*Sponsor: Connie Sinoy*
- 2. Brownsville ISD: Stillman MS - Mackenzie Collentine** *"Bay Watch"* *Sponsor: Helen Chavez*
- 3. Brownsville ISD: Vela MS - Eric Ayma** *"Bioplastics: Green has a New Meaning"* *Sponsor: Sujatha Thakker*
- 4. Weslaco ISD: B. Garza MS - JESSICA IBARRA, AMBER MERLA** *"PRICKLY PEAR PURIFICATION"* *Sponsor: JULIO TREVINO*
- 5. McAllen ISD: Fossum MS - Kayla Davis, Chelsey Faris** *"Skyglow"* *Sponsor: Leonel Betancourt*



# Environmental Sciences/Analysis

- 1. Brownsville ISD: Stillman MS - Moore Jacob** *"Catch the Wind"* Sponsor: Tony Padilla
- 2. Harmony Science Academy: Harmony Laredo - Katherine Munson** *"Do Rooftop Gardens Help Keep A Cooler Dwelling"* Sponsor: BUNYAMIN MURAT
- 3. Weslaco ISD: Mary Hoge MS - Hector Saenz** *"To Drink, or Not to Drink . . . "* Sponsor: Monica Everitt
- 4. La Joya ISD: Trevino MS - Gabriela Peralez** *"Gone With The Wind"* Sponsor: Rosie Guajardo
- 5. Brownsville ISD: Manzano MS - David Garcia** *"The Adverse Effect of UV Radiation on the Absorption of Carbon Dioxide "* Sponsor: Gregory Freitag



# Mathematical Sciences

1. **Weslaco ISD: Central MS - Jenna Wells** "*BMI vs. Blood Pressure*" *Sponsor: David Medina*
2. **Donna ISD: A.P. Solis MS - Eric Garcia** "*The Fallen*"  
*Sponsor: Olga Jimenez*
3. **McAllen ISD: Fossum MS - Joseph Williams** "*Cars in Motion*" *Sponsor: Amy Gonzalez*
4. **La Joya ISD: Salinas MS - WILLIAM DONOVAN MARTIN-ARRIAGA** "*TO INFINITY & BEYOND*" *Sponsor: ISAI ALANIS*
5. **La Joya ISD: Chavez - Christopher Villarreal** "*Do The Math!*" *Sponsor: Ramon Menchaca*





# Medicine and Health Sciences

- 1. Weslaco ISD: B. Garza MS - Clarissa De La Garza**  
*"Caffeinated" Sponsor: Juanita Cantu*
- 2. La Joya ISD: Garcia MS - Brian Galvan** *"got gas" Sponsor: jose solis*
- 3. McAllen ISD: Fossum MS - Khatrina Te** *"A Lemon Lime Crime" Sponsor: Amy Gonzalez*
- 4. Brownsville ISD: Stell MS - Brianna Huerta** *"Glucose: The Hidden Truth" Sponsor: Estella Lopez*
- 5. La Joya ISD: Saenz MS - JESSICA VILLARREAL, GISEL PEREZ, ARIANNA JUAREZ** *"HEALTHIER TASTY COFFEE: ROASTED ORYZA SATIVA WITH HERBS" Sponsor: Amylyn Borja-Freese*



# Microbiology

- 1. La Joya ISD: Zavala MS - Alejandra Gutierrez** *"White bread vs toast bread"* Sponsor: Anastacio Gaytan
- 2. IDEA Public Schools: IDEA - Quest - Quinn Sullivan** *"Gross Growths"* Sponsor: Shane McClellan
- 3. Weslaco ISD: Cuellar - Bianca Castro** *"The Germinator"* Sponsor: Mary Yanez
- 4. Brownsville ISD: Stillman MS - Cynthia Garcia** *"Shoo Shoo Fly!"* Sponsor: Cynthia Garcia
- 5. Weslaco ISD: Central MS - stephanie gorena** *"more juice please"* Sponsor: David Medina



# Physics and Astronomy

1. **McAllen ISD: Cathey MS - Calvin Beck, Will Garcia** *"Which shape is the most stealth like?"* Sponsor: Brandon Vail
2. **IDEA Public Schools: IDEA - McAllen - Therechel Abad, Brittany Cabrera** *"Got Game?"* Sponsor: Marco Castillo
3. **IDEA Public Schools: IDEA - San Benito - Emma Huff, Audrey Kennedy, Elivia Ortiz** *"The Barometer"* Sponsor: Darlene Hernandez
4. **Harmony Science Academy: Harmony Laredo - Rebecca N. Alvarado** *"Measure speed of light using jelatine?"* Sponsor: BUNYAMIN MURAT
5. **La Joya ISD: Trevino MS - Estephanie Castillo** *"Crash Test Dummies"* Sponsor: Brenda Slasor



# Plant Sciences

- 1. Weslaco ISD: Cuellar - Jacob Blas** *"Tomaters for Laters"*  
*Sponsor: Mary Yanez*
- 2. IDEA Public Schools: IDEA - McAllen - Miah Ramos**  
*"Cleopatra's Beauty Secret"* *Sponsor: Marco Castillo*
- 3. McAllen ISD: Fossum MS - Isa Garcia, Ashley Cortez, Alejandra Gomez-Lopez** *"Cabbage Clones"* *Sponsor: Alfredo Trevino*
- 4. Harmony Science Academy: Harmony Laredo - Victor YII**  
*"Soil + Electrons = Electricity"* *Sponsor: BUNYAMIN MURAT*
- 5. Donna ISD: A.P. Solis MS - Leslie Amaro, Sarah Delgado**  
*"Inorganic vs. organic"* *Sponsor: Carly Williams*





# Special Awards

## 2<sup>nd</sup> Runner Up

**Brownsville ISD: Manzano MS -  
Rodrigo Caraveo**

*"Wings are Such a Drag!"*

*Sponsor: Gregory Freitag*



# 1<sup>st</sup> Runner Up

**Weslaco ISD: B. Garza MS -  
Kyrie Garlic, Olivia Cellum**  
*"Effects of Carbon Dioxide on  
Crayfish"*  
*Sponsor: Connie Sinoy*



# Grand Champion

## Harmony Science Academy: Harmony Laredo - Aneesa Mohammed

*"Cross my heart and hope to last  
longer"*

*Sponsor: BUNYAMIN MURAT*





**A special thanks to all of you for  
your patience today.**

