

Rio Grande Valley Regional Science and Engineering Fair 2011
High School Winners

Animal Sciences (AS)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	AS-02	Pace HS	LCSI: Larvae Crime Investigation	Andrea Lozano	Dora Lopez
4th	AS-08	Lopez HS	The effects of crude oil on bait shrimp	Eunice De Leon	Susan Galvan
3rd	AS-01	Weslaco East HS	Food Source for the Beet Army Worm	Kassandra Saldana	John Adamczyk
2nd	AS-10	Hanna HS	The Effect of Decreasing Salinity	Irma Kowalski	Nereyda Arizmendi
1st	AS-05	Weslaco East HS	Small Hive Beetle Development in Soil Depth	Joshua Jurado	Rodolfo Medrano William Meikle

Behavioral and Social Sciences (BE)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	BE-11	Pace HS	Violent Temperatures	Angela Camacho	Dora Lopez
4th	BE-12	Weslaco East HS	Memory Helper: Color or Music?	Alice Cantu	Mary Gregory
3rd	BE-02	Weslaco East HS	The Ol' Switcharoo	Mike Gonzalez	Moran Patrick
2nd	BE-08	Pace HS	Cultivating Success	Luis Baez	Dora Lopez
1st	BE-10	Lopez HS	Purchase Towards Music	Denisse Hernandez	Janeth Cain

Biochemistry (BI)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	BI-06	Lopez HS	Citrus Energy	Luis Martinez	P.B Hartwell
4th	BI-01	Veterans Memorial HS	Economic Vs. Ecologic	Franciso Gallegos	Jose Ramirez
3rd	BI-04	Rivera HS	The Breakdown of Lipids	Mayra Rios	Yajaira Fuentes-Tauber
2nd	BI-02	Rivera HS	Monster Mice	Guillermo Rodriguez	Yajaira Fuentes-Tauber
1st	BI-03	Pace HS	Shell Sensitivity	Ann Jacobo	Dora Lopez

Cellular and Molecular Biology (CB)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	CB-04	Rivera HS	Gulp Cell Gulp	Vanessa Ojeda	Yajaira Tauber
4th	CB-02	Rivera HS	DNA: a Nightmare to a Perfect Crime	Luis Saucedo	Yajaira Tauber
3rd	CB-08	Weslaco East HS	Formation of Synapses: Year Two	Rolando Arjona	Daniel Plas
2nd	CB-01	UTB/TSC Mathematics and Science Academy	Characterization of Glutamatergic Phenotypes in Hybrid Septal Neuroblastoma (SN56) Cells	Mayra Velaquez	Emilio Garrido
1st	CB-05	Weslaco East HS	The visibility of neurons electricity through the darkening of liquid crystals	Iris Perez	Rodger Nelson

Chemistry (CH)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	CH-11	Lopez HS	Beyond the Water	Ashley Martinez	Penny Hartwell
4th	CH-09	Lopez HS	Yummy in a Baby's Tummy	Clarissa Martinez	Janeth Cain
3rd	CH-08	Lopez HS	The H-Bomb	Tania Matamoros	Janeth Cain
2nd	CH-13	Weslaco HS	Getting the Heavy Metal (Pb) Out	Emiliano Ybarra	Ana Ybarra
1st	CH-01	Weslaco East HS	Particle Size through the Scattering of Light	Luis Cavazos	Nelson Rodger

Computer Science (CS)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th					
4th	CS-02	Rivera HS	The Truth About Flashdrives	Graciela Munoz	Yajaira Tauber
3rd	CS-01	Hanna HS	Save As...	Aaron Salazar	Sally Chong
2nd	CS-04	Weslaco HS	Against Time	Josiah Gutierrez	Joe Zambrano
1st	CS-03	Weslaco East HS	Virtual Nightshade	Antonio Martinez	Daniel Hinojosa

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Earth and Planetary Science (EA)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	EA-10	Weslaco East HS	Polluted Water and Solar Energy	David Garcia	Mary Gregory
4th	EA-04	Porter HS	EXPLOSION IN THE SUN	Felix Salazar	Andy Miller
3rd	EA-05	Rivera HS	Barometric Pressure: The Effect on Cloud Formation and Local Weather Temperatures	Isaac Romero	Yajaira Tauber
2nd	EA-06	Weslaco East HS	Solar Flares	Angela Luna	Rodger Nelson
1st	EA-02	Pace HS	A Temperamental Child Named ENSO	Julio Yanez	Daniel Plas

Engineering: Electrical and Mechanical (EE)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	EE-03	Santa Gertrudis Acaden	Energy through the Air	James Crabbe II	Lon Neth
4th	EE-11	Weslaco East HS	Piezo Position vs Frequency Response	Alan Flores	Daniel Plas
3rd	EE-04	Weslaco East HS	The Spirit Meter	Humberto Saenz	Thomas Padilla
2nd	EE-09	BECHS	Can an onion Charge and I-Pod	Angel Castillo	Luz Guillen
1st	EE-06	Hanna HS	Negativus Vi	Andrew Ayma	Sally Chong

Environmental Management (EM)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	_____	_____	_____	_____	_____
4th	EM-01	Donna HS	One Tin Can at a Time	Annette Cano	Laura Decanini
3rd	EM-09	Hanna HS	The Effect of Oil Spills on Aquatic Plant Growth	Heather Glover	
2nd	EM-03	Weslaco East HS	The importance of red worms	Cesar Garcia	Rodger Nelson
1st	EM-04	Weslaco East HS	Freeze Saver	Jose Duran	Thomas Padilla

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Engineering: Materials and Bioengineering (EN)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	EN-07	Lopez HS	Just ECO.	Lawrence Hernandez	Mayra Padilla
4th	EN-03	Pace HS	Weirs Are Not Weird	Peter Guerrero	Lopez
3rd	EN-08	Lopez HS	Standing Strong	Mario Benavides	Mayra Padilla
2nd	EN-02	Weslaco East HS	Preservation of Historical Monuments	Dpbetlehem Reyna	Arnulfo Cruz
1st	EN-05	Weslaco East HS	Less Strain Less Pain	Ramses Aparicio	Thomas Padilla

Energy and Transportation (ET)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	_____	_____	_____	_____	_____
4th	ET-07	Lopez HS	Fuel Cells	Pedro Martinez	P. B. Hartwell
3rd	ET-06	Weslaco East HS	A New Wave of Energy	George Guajardo	Rodger Nelson
2nd	ET-05	Pace HS	Oceaneering	Alexander Garcia	Dora Lopez
1st	ET-02	Weslaco East HS	Free Air Conditioning	Isai Hernandez	Daniel Plas

Environmental Sciences (EV)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	EV-08	Lopez HS	Plastic Litter: A study of how plastic litter affects dissolved oxygen in a body of water.	Kassandra Avila	Susan Galvan
4th	EV-06	Weslaco East HS	Ionizing Radiation Emitted from Various Matter	Krystal Luna	Mary Gregory
3rd	EV-13	Porter HS	Pollution and Percolation	Deigo Ruiz	Nicole Benton
2nd	EV-07	Weslaco East HS	Water Pollution and the Role of CAT	Rubi Garcia	Daniel Plas
1st	EV-04	Veterans Memorial HS	Going Green	Alex Gonzalez	Linda Camacho

Mathematical Sciences (MA)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	MA-03	Porter HS	Human Energy	Jonathan Burlette	Andy Miller
4th	MA-05	Porter HS	Mathematical Analysis of Black Holes	Crystal Chavez	Andy Miller
3rd	MA-01	Weslaco East HS	The Bell Curve	Victoria Lopez	Nelson Rodger
2nd	MA-08	Lopez HS	Live and Learn II	Estaban Sosa	P.B
1st	MA-07	Weslaco East HS	Spinning Relativity	Hernan Paz	Daniel Plas

Medicine and Health Sciences (ME)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	ME-09	BECHS	Which toothpaste is most effective for cleaning /whitening teeth?	Jessica Guzman	Luz Guillen
4th	ME-06	Lopez HS	The effect of prickly pear extract on the growth of beneficial vs. non-beneficial strains of bacteria	Mosiah Ortiz	Susan Galvan
3rd	ME-10	Donna HS	Determining Genetic Components of Diabetes	Nishele Alvarez	Laura Decanini
2nd	ME-01	Weslaco East HS	Bitter-Sweet Antioxidants	Michael Perez	Mr. Cruz
1st	ME-02	Porter HS	Can You Stomach This?	Vanessa Sandoval	Mr. Miller

Microbiology (MI)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	MI-06	Weslaco East HS	Reducing Malpigamoeba	Juan Jaramillo	Arnulfo Cruz
4th	MI-02	Donna HS	Determining Differences in Microorganismal Populations in a Core Sample	Mary Colby	Laura Decanini
3rd	MI-07	Hanna HS	The Effects of Ocean Water on An Urban City's Effluent Wastewater	Lauren Rodgers	Eduardo Arramnde
2nd	MI-12	Porter HS	Now You See It, Now You Don't	Nelly Garcia	Patricia Obell
1st	MI-11	Hanna HS	AC Filters Making Me Sick?	Kyle Valdez	Nereyda Arizmendi

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Physics and Astronomy (PH)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	PH-09	Porter HS	Oh! Be A Fine Girl Kiss Me!	Rubi Ruiz	Andy Miller
4th	PH-11	Weslaco East HS	Can a Bullet be Matched to the Gun that Fired It?	Pascual Dominguez	Veronica Dominguez
3rd	PH-02	Weslaco East HS	Why so bright?	Marisa Gorena	Daniel Hinojosa
2nd	PH-10	W. A. Todd 9th Grade C	An electron beam in an electric and magnetic field	Oziel Carapia	Jennifer Ruiz
1st	PH-01	Hanna HS	The Big Launch: Arm Angle Advantage	Andrew Moser	Diana Williams

Plant Sciences (PS)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	PS-01	Donna HS	Identifying the Mutation in Clonal Kalanchoe	Sarahi Enriquez	Laura Decanini
4th	PS-08	Hanna HS	Stimulating Plant	Kenisha Dominguez	Laura Decanini
3rd	PS-02	Pace HS	Close Your Stomata	Kimberly Carmona	Dora Lopez
2nd	PS-09	Weslaco HS	Triclosan Plant Frenzy	Angela Montalvo	Joe Zambrano
1st	PS-10	Lopez HS	Pesticide: A Study of The Effects of Pesticide on the Microbial Community in the Soil	Yelitza Garcia	Susan Galvan

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Team Biological (TB)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	TB-06	Lopez HS	Dyeing for Alzheimer's	Sandra Olivares	Susan Galvan
4th	TB-12	Weslaco East HS	Chalkbrood Disease: A study of Honey Bee Disease Control	Ramiro Trevino	Humberto Caban
3rd	TB-04	Pace HS	Bend It, Too!	Stephanie Pena	Dora Lopez
2nd	TB-05	Weslaco East HS	Does shock therapy alleviate the symptoms of parkinson's disease in snails?	Angelita Alaniz	Daniel PLas
1st	TB-07	Weslaco East HS	The Effect of Limonene Based Paint on Soil Quality	Laura Hernandez	Connie Sinoy

Team Physical (TP)

Rank	Project #	School	Project Title	Student's Name	Teacher
5th	TP-12	Weslaco East HS	Laser Sound?!	Kevin Oyola	Rodger Nelson
4th	TP-06	Pace HS	I Get By With A Little Help From My Friends	Rabb Lawson	Dora Lopez
3rd	TP-08	Pace HS	Don't Waste the Wind	Humberto De La Garza	Dora Lopez
2nd	TP-04	Weslaco East HS	Magnetic Field Effects on Isomerization of Cis and Trans Dinitrobis Ethylenediamine Cobalt (III) Nitrate	Anahi Gonzalez	Daniel Plas
1st	TP-13	Weslaco HS	Cosmic Ray Telescope	Scott Van Tilburg	Daniel Plas

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Grand Champion Team

Rank	Project #	School	Project Title	Student's Name	Teacher
Grand Champion Team	TB-07	Weslaco East HS	The Effect of Limonene Based Paint on Soil Quality	Laura Hernandez	Connie Sinoy

First Runner Up Individual Categories

Rank	Project #	School	Project Title	Student's Name	Teacher
1st Runner Up	PH-01	Hanna HS	The Big Launch: Arm Angle Advantage	Andrew Moser	Diana Williams

Grand Champion Individual Categories

Rank	Project #	School	Project Title	Student's Name	Teacher
Grand Champion	EV-04	Veterans Memorial HS	Going Green	Alex Gonzalez	Linda Camacho

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