

2011 Tri-Valley Science & Engineering Fair-Award Winners

Exhibit No.	First Name	Last Name	Project Title	Teacher	School Name	Award Received	Special Award(s)	SweepStakes Winner
<i>1st Place</i>								
BE 101	Sarah	Adams	From Brawn to Brain: Does Exercise Make You Smarter?	Jeanine Gillengerten	St. Raymond	1st		
BC 202	Aryo	Sorayya	Determination of Lipid Content in Nano Lipid Particles (NLA) by Dynamic Light Scattering	Brady Taylor	Monte Vista High	1st		
BL 110	Alyssa	Hsing	How Eyes Adjust to the Color and Brightness of Light	Jason Miller	Pine Valley Middle	1st		
BL304T	Tiffany	Cha	How Oil Affects Plants	Linda Seipel	Gale Ranch Middle	1st		
BL304T	Rachel	Ingram	How Oil Affects Plants	Barbara Weisbrod	Gale Ranch Middle	1st		
BL304T	Julia Yoonhee	Kim	How Oil Affects Plants	Barbara Weisbrod	Gale Ranch Middle	1st		
BL316T	Elan	Douglas	Is It Worth It?	Lindsay Abbott	Livermore Valley Charter	1st		
BL316T	Jacob	Tidwell	Is It Worth It?	Lindsay Abbott	Livermore Valley Charter	1st		
BL317T	Kevin	Garcia	Gross Groceries	Lindsay Abbott	Livermore Valley Charter	1st	Northern California Institute of Food Technology (1st Place); LLNL Bioscience and Biotechnology Group Leaders (HS)	
BL317T	Victoria	Winter	Gross Groceries	Lindsay Abbott	Livermore Valley Charter	1st	Northern California Institute of Food Technology (1st Place); LLNL Bioscience and Biotechnology Group Leaders (HS)	
CM 201	Nicole	Allen	The Effects of Hypoxia and Substrate Elasticity on C2C12 Stem Cell Differentiation	Elizabeth Lopez	Granada High	1st	Biophysical Society	
CM 203	Aishwarya	Yenepalli	Analysis of Genes Involved in the Biosilica Nanofabrication in Thalassiosira Pseudonana Using Proteomics	Eric Thiel	Amador Valley High	1st	LLNL Bioscience and Biotechnology Group Leaders (JR)	
EN406T	Sejal	Jain	The Engineering of Water Filtration Pt. 2	Alissa Dreon	Dougherty Valley High	1st	U.S. Navy (HS-3rd Place); Stockholm Junior Water Prize (1st Place); Dublin San Ramon Services District (HS-1st Place); National Oceanic and Atmospheric Administration; Sustainable Designs	
EN406T	Tuhina	Koppikar	The Engineering of Water Filtration Pt. 2	Melissa Robinett	Dougherty Valley High	1st	U.S. Navy (HS-3rd Place); Stockholm Junior Water Prize (1st Place); Dublin San Ramon Services District (HS-1st Place); National Oceanic and Atmospheric Administration; Sustainable Designs	
EN406T	Tiuli	Kulshi	The Engineering of Water Filtration Pt. 2	Alissa Dreon	Dougherty Valley High	1st	U.S. Navy (HS-3rd Place); Stockholm Junior Water Prize (1st Place); Dublin San Ramon Services District (HS-1st Place); National Oceanic and Atmospheric Administration; Sustainable Designs	
EV 202	Stephanie	Liu	Salad Lovers - Pinching Pennies Without Sacrificing Food Safety	Meghan Faerber	Monte Vista High	1st	Northern California Institute of Food Technology (3rd Place)	
EV 203	Stephanie	Herbert	Testing for Toxins in Shadow Cliffs Lake and Their Effects on Aquatic Development	Elizabeth Lopez	Granada High	1st	Zone 7 Water; Stockholm Junior Water Prize (2nd Place)	
EV401T	Tyler	Gambill	Massproducing Energy: The Effect of Different Environments on Algae Growth	Robin Groch	San Ramon Valley High	1st		
EV401T	Connor	Salvo	Massproducing Energy: The Effect of Different Environments on Algae Growth	Robin Groch	San Ramon Valley High	1st		
MC301T	Elina	Blazhiyevska	Quantum Dopamine	Julie Cilenti	Diablo Vista Middle	1st		
MC301T	Bonnie	Chen	Quantum Dopamine	Julie Cilenti	Diablo Vista Middle	1st		

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MC301T	Mayia	Vranas	Quantum Dopamine	Julie Cilenti	Diablo Vista Middle	1st		
MA402T	Paul	Epperson	Factor Analysis of Locational Fingerprints	Raj Virk	Livermore Valley Charter	1st		
MA402T	Steven	Wang	Factor Analysis of Locational Fingerprints	Lejla Cyr	Granada High	1st		
MH 201	Christina	Ren	Ways to Enhance Cell Regeneration	Meghan Faerber	Monte Vista High	1st	Northern California Branch of the American Association for Laboratory Science (2nd Place)	HS Sweepstakes Winner
MB403T	Chris	Francis	The Effects of Pollutants on the Bioluminescence of Pyrocystis Fusiformis	Meghan Faerber	Monte Vista High	1st		
MB403T	Justin	Tsung	The Effects of Pollutants on the Bioluminescence of Pyrocystis Fusiformis	Meghan Faerber	Monte Vista High	1st		
MB408T	Ruchita	Gupta	Near-infrared Light Biostimulation: a Novel Approach to the Optimization of Industrial Biosynthesis	Beth Cutter	Amador Valley High	1st	Society for In-Vitro Biology; LLNL Bioscience and Biotechnology Group Leaders (HS)	HS Sweepstakes Winner
MB408T	Ray	Zhou	Near-infrared Light Biostimulation: a Novel Approach to the Optimization of Industrial Biosynthesis	Beth Cutter	Amador Valley High	1st	Society for In-Vitro Biology; LLNL Bioscience and Biotechnology Group Leaders (HS)	HS Sweepstakes Winner
PS 106	Kristen	Young	Determining the Ability of Heliostats to Improve the Efficiency of Solar Panels	Lindsay Abbott	Livermore Valley Charter	1st	American Vacuum (JR-3rd Place)	
PS 120	Daniel	Cox	Aspect Ratio and Its Effect on Sail Efficiency	Jason Miller	Pine Valley Middle	1st	American Vacuum (JR-1st Place); Topcon Positioning Systems	JR Sweepstakes Winner
PS 126	Kylie	Stang	Melting Chocolate	Debra Irvin	Pine Valley Middle	1st		
PS 130	Vidhi	Amin	How Does Heat Affect Vitamin C?	Debra Irvin	Pine Valley Middle	1st		
PS 138	Rachel	Wang	Acid Muffins' Density	Debra Irvin	Pine Valley Middle	1st	U.S. Metric Association; Safeway (JR)	
PS 139	Zoe	Chan	The Effect of Friction on Tires	Jason Miller	Pine Valley Middle	1st		
PS 140	Andrew	Peng	Effect of Increasing Concentration of Salt on Refractive Index of Water	Larissa Herrera	Pine Valley Middle	1st		
PS 144	Michael	Tobin	Understanding How the Size and Location of a Perforation in a Metal Box Affects Cell Phone Reception for a Cell Phone Contained in the Box	Larissa Herrera	Pine Valley Middle	1st	American Vacuum (JR-2nd Place)	
PS 148	Kaela	Takei	Strength of Glue	Suzette Takei	Sunol Glen Middle	1st		
PS 153	Angela	Zhou	Optimal Wind Turbine	Debra Irvin	Pine Valley Middle	1st	Topcon Positioning Systems	
PS 156	Winnie	Chen	Toy Lead	Suzette Takei	Sunol Glen Middle	1st		
PS 158	Zach	Sonnenschein	Reusable Energy	Suzette Takei	Sunol Glen Middle	1st	Topcon Positioning Systems	
PS302T	Maisam	Jafri	Individual Water Purification System	Kimberly Cullen	Windemere Ranch Middle	1st	Dublin San Ramon Services District (JR-1st Place); Sandia National Laboratories (HS)	JR Sweepstakes Winner
PS302T	Tarun Komidi	Reddy	Individual Water Purification System	Kimberly Cullen	Windemere Ranch Middle	1st	Dublin San Ramon Services District (JR-1st Place); Sandia National Laboratories (HS)	JR Sweepstakes Winner
PS302T	Derek	Xiao	Individual Water Purification System	Kimberly Cullen	Windemere Ranch Middle	1st	Dublin San Ramon Services District (JR-1st Place); Sandia National Laboratories (HS)	JR Sweepstakes Winner
PS306T	Ye Rim	Park	Angle of Attack vs. Drag	Larissa Herrera	Pine Valley Middle	1st	Topcon Positioning Systems	
PS306T	Michelle	Xue	Angle of Attack vs. Drag	Larissa Herrera	Pine Valley Middle	1st	Topcon Positioning Systems	
PS332T	Akaash	Kambath	Holy Hovercraft!	Kimberly Cullen	Windemere Ranch Middle	1st		
PS332T	Teja	Pamidimukkala	Holy Hovercraft!	Kimberly Cullen	Windemere Ranch Middle	1st		
PS332T	Nick	Sawney	Holy Hovercraft!	Kimberly Cullen	Windemere Ranch Middle	1st		
PS336T	Dibya	Ghosh	Operation Rain Detector - The "Sprinkler" Way to Save Water	Pam Serzen-Dayton	Iron Horse Middle	1st	Dublin San Ramon Services District (JR-1st Place); Topcon Positioning Systems	
PS336T	Dhuvarakesh	Karthikeyan	Operation Rain Detector - The "Sprinkler" Way to Save Water	Pam Serzen-Dayton	Iron Horse Middle	1st	Dublin San Ramon Services District (JR-1st Place); Topcon Positioning Systems	
PS336T	Brandon	Sigamony	Operation Rain Detector - The "Sprinkler" Way to Save Water	Pam Serzen-Dayton	Iron Horse Middle	1st	Dublin San Ramon Services District (JR-1st Place); Topcon Positioning Systems	

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PL 203	Uzair	Mohammad	Plant Power: Using ATP From Cyclic Photophosphorylation to Generate Heat	Frankie Tate	Granada High	1st		
PL404T	Nikita	Gawande	Phyting Pollution: Mycorrhizal Inoculated Pole Bean Plants as a Means of Phytoremediation	Katherine Huang	Dougherty Valley High	1st	Tri-Valley Conservancy (HS)	
PL404T	Priyanka	Potdar	Phyting Pollution: Mycorrhizal Inoculated Pole Bean Plants as a Means of Phytoremediation	Katherine Huang	Dougherty Valley High	1st	Tri-Valley Conservancy (HS)	
PL407T	Christian	Burns	Permanent and Inherited Effects of Different Wavelengths of Light on the Respiratory and Photosynthetic Rates of Brassica Rapa and Juncea over Multiple Generations	Frankie Tate	Granada High	1st		
PL407T	Megan	Cohen	Permanent and Inherited Effects of Different Wavelengths of Light on the Respiratory and Photosynthetic Rates of Brassica Rapa and Juncea over Multiple Generations	Frankie Tate	Granada High	1st		
PL410T	Jenny	Lake	The Effect of Carbon Dioxide on Lima Beans	Robin Groch	San Ramon Valley High	1st		
PL410T	Meagan	Stephenson	The Effect of Carbon Dioxide on Lima Beans	Robin Groch	San Ramon Valley High	1st		

Exhibit No.	First Name	Last Name	Project Title	Teacher	School Name	Award Received	Special Award(s)	SweepStakes Winner
<i>2nd Place</i>								
BE 121	Alison	Lander	When Left Can Be Right, But Right Can't Be Left	Jeanine Gillengerten	St. Raymond	2nd		
BE 201	Joshua	Miner	Scrambled Stroop Effect	Robin Groch	San Ramon Valley High	2nd		
BE408T	Vijay	Mittal	Arachnophobia in High School	Janet Kaehms	Dublin High	2nd	American Psychological Association	
BE408T	Joshua	Price	Arachnophobia in High School	Janet Kaehms	Dublin High	2nd	American Psychological Association	
BL 123	Ryan	Songey	What's On Your Sponge?	Jeanine Gillengerten	St. Raymond	2nd		
BL 131	Daniel	Herrera	Finding a Plant's Hydroponic Home	Lindsay Abbott	Livermore Valley Charter	2nd		
BL 136	Grace	Wilkins	Purely Water	Monica Winter	Livermore Valley Charter	2nd		
BL302T	Sally	Fu	Oily Plants: How Does The Amount of Motor Oil in The Soil Affect The Growth of Radishes?	Barbara Weisbrod	Gale Ranch Middle	2nd		
BL302T	Victoria	Lu	Oily Plants: How Does The Amount of Motor Oil in The Soil Affect The Growth of Radishes?	Barbara Weisbrod	Gale Ranch Middle	2nd		
BL309T	Malini	Anand	Fish and 'Scides	Linda Seipel	Gale Ranch Middle	2nd		
BL309T	Meenakshi	Pandiarajan	Fish and 'Scides	Linda Seipel	Gale Ranch Middle	2nd		
CM 210	Edward	Wang	Tracing the Evolution of NDM-1	Heather Pereira	Amador Valley High	2nd		
CS 201	Eric	Sauer	Towards the Evolution of Artificial Intelligence: Designing a Human-like AI That Can Learn and Adapt to User Actions & Skill-sets	Katherine Huang	Dougherty Valley High	2nd	U.S. Navy (HS-1st Place); Intel Excellence in Computer Science	
ET 207	Vivien	Fekete	Novel Turning Mechanism for Skateboards & Cerebral Palsy Mobility Device	Eugene Mizusawa, Dr	Quarry Lane	2nd		
ET406T	Brian	Garcia	Watts Off or On? Watts Up or Down?	Renee Haugen	Livermore High	2nd		
ET406T	Nick	Winter	Watts Off or On? Watts Up or Down?	David Foster	Granada High	2nd		
EN402T	Charles	Guo	The Effectiveness of Low-purity Sulfide Semiconductors Grown by Pulsed Laser Deposition	Chris Gibbons	Foothill High	2nd	Chevron (HS-1st Place); National Society of Professional Engineers; Yale Science and Engineering Association; ASM Materials Education Foundation; American Vacuum (HS-1st Place)	
EN402T	Siddharth	Ramakrishnan	The Effectiveness of Low-purity Sulfide Semiconductors Grown by Pulsed Laser Deposition	Chris Gibbons	Foothill High	2nd	Chevron (HS-1st Place); National Society of Professional Engineers; Yale Science and Engineering Association; ASM Materials Education Foundation; American Vacuum (HS-1st Place)	
EN402T	Brian	Wu	The Effectiveness of Low-purity Sulfide Semiconductors Grown by Pulsed Laser Deposition	Chris Gibbons	Foothill High	2nd	Chevron (HS-1st Place); National Society of Professional Engineers; Yale Science and Engineering Association; ASM Materials Education Foundation; American Vacuum (HS-1st Place)	
EV 207	Shreyas	Bhave	Worm Compost - The Super Microorganism Filled Fertilizer?	Meghan Faerber	Monte Vista High	2nd	Sustainable Designs	
EV 221	Brooke	Begun	The Effect of Micronized Zinc Oxide Particles on Saltwater Algae: Is Sunscreen Safe for Seaweed?	Robin Groch	San Ramon Valley High	2nd		
EV405T	Sydney	Lance	Dropping Like Flies: the Effect of Environmental Conditions on Recycled Plastic Decking Materials	Robin Groch	San Ramon Valley High	2nd		
EV405T	Melissa	Lawrence	Dropping Like Flies: the Effect of Environmental Conditions on Recycled Plastic Decking Materials	Robin Groch	San Ramon Valley High	2nd		

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MC 101	Katherine	Johnston	The Birthday Problem: Using Mathematica, Excel, and LOTS of People to Prove a Classic Stumper!	Richard Clinnick	East Avenue Middle	2nd		
MC302T	Timothy	Deng	Is it Prime?	Barbara Weisbrod	Gale Ranch Middle	2nd		
MC302T	Ayush	Rath	Is it Prime?	Christy Tyler	Gale Ranch Middle	2nd		
MC307T	Mustafa	Fattah	The 21st Century Abacus - Batteries Not Included: Emulating Electronic Impulses by Means of Binary Mechanical Digital Computation	Barbara Weisbrod	Gale Ranch Middle	2nd		
MC307T	Gregory	Garcia	The 21st Century Abacus - Batteries Not Included: Emulating Electronic Impulses by means of Binary Mechanical Digital Computation	Barbara Weisbrod	Gale Ranch Middle	2nd		
MH 209	Varun	Krishnamurthy	Using Mathematical Models to Design a Mass Vaccination Program	Mark Hailey	Foothill High	2nd	Mu Alpha Theta (HS); U. S. Army	
MB 201	Davis	Kusnick	The Effect of Sunscreen on Yeast Genetics	Robin Groch	San Ramon Valley High	2nd		
MB 202	Michael	Kuhn	Phage-Powered Fluorescence: Using Recombinant Lambda Phages to Transform E.coli	Elizabeth Lopez	Granada High	2nd		
MB 203	Jeffrey	Feng	How Sulfur Dioxide From Industrial Processes Affect the Growth Rate of Marine Dinoflagellates	Meghan Faerber	Monte Vista High	2nd		
MB404T	Elise	Falgout	What's in Your Sponge?	Steven Giles	Livermore High	2nd	Safeway (HS)	
MB404T	Alyssa	Stevenson	What's in Your Sponge?	Steven Giles	Livermore High	2nd	Safeway (HS)	
PS 101	Adnan	Yunus	The 'Natural' Way of Whitening Teeth	Pam Serzen-Dayton	Iron Horse Middle	2nd		
PS 102	Anuj	Kak	Electronic Rain Detector	Lindsay Abbott	Livermore Valley Charter	2nd		
PS 113	Stephen	Kai	Oil, Oil Everywhere	Arch Manganaan	Christensen Middle	2nd		
PS 118	Vinod	Krishnamurthy	Evaluating Windmill Designs	Theresa Gonsalves	Harvest Park Middle	2nd	Sustainable Designs	
PS 142	Rachael	Huey	Insulation on Heat Retention	Jason Miller	Pine Valley Middle	2nd		
PS 146	Shashank	Rao	Investigation of Windmill Rotor Design	Larissa Herrera	Pine Valley Middle	2nd		
PS 147	Kieran	West	Bombs Away!	Tiffany Burkle	Junction Avenue Middle	2nd		
PS 149	Radhika	Balagopal	Does LED Brightness Vary With Current?	Jason Miller	Pine Valley Middle	2nd	U.S. Navy (JR-3rd Place)	
PS 151	Justin	Raizes	Temperamental Lasers - The Effects of Heat and Cold on Lasers	Larissa Herrera	Pine Valley Middle	2nd	U.S. Navy (JR-2nd Place)	
PS 152	Jennifer	Gordon	A Juicy Project!	Tiffany Burkle	Junction Avenue Middle	2nd		
PS309T	Chase	Bergstad	Desalinating Water to Help Third Wold Countries	Julie Cilenti	Diablo Vista Middle	2nd		
PS309T	Jung	Kim	Desalinating Water to Help Third World Countries	Julie Cilenti	Diablo Vista Middle	2nd		
PS312T	Zabrisky	Roland	iShoe: Creating a Renewable Energy Source Through the Use of Kinetic Energy	Lindsay Abbott	Livermore Valley Charter	2nd		
PS312T	Zachary	Turner	iShoe: Creating a Renewable Energy Source Through the Use of Kinetic Energy	Lindsay Abbott	Livermore Valley Charter	2nd		
PS318T	Smita	Balaji	Under Pressure: The Affect of Water Pressure on Magnetism	Jason Miller	Pine Valley Middle	2nd		
PS318T	Joelle	Victoriano	Under Pressure: The Effect of Water Pressure on Magnetism	Jason Miller	Pine Valley Middle	2nd		
PS324T	John	Kriston	The Magic Stick	Larissa Herrera	Pine Valley Middle	2nd		
PS324T	Thomas	Kriston	The Magic Stick	Larissa Herrera	Pine Valley Middle	2nd		
PS328T	Jacob	Mitchell	The Hover Craft Experiment	Tiffany Burkle	Junction Avenue Middle	2nd	U.S. Navy (JR-1st Place); Sandia National Laboratories (JR)	
PS328T	Casey	Tanod	The Hover Craft Experiment	Tiffany Burkle	Junction Avenue Middle	2nd	U.S. Navy (JR-1st Place); Sandia National Laboratories (JR)	
PS330T	Annie	Chen	You'll Screech at the Beach if you're Unprotected	Christy Tyler	Gale Ranch Middle	2nd		
PS330T	Shreya	Sodhi	You'll Screech at the Beach if you're Unprotected	Christy Tyler	Gale Ranch Middle	2nd		
PS331T	Alexandra	Gladchenko	How Does That Sound?	Pam Serzen-Dayton	Iron Horse Middle	2nd		
PS331T	Katelyn	Hefter	How Does That Sound?	Pam Serzen-Dayton	Iron Horse Middle	2nd		

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PS331T	Anna	Hwang	How Does That Sound?	Pam Serzen-Dayton	Iron Horse Middle	2nd		
PS338T	Anjali	Kalra	The Node of the Tennis Racket	Jason Miller	Pine Valley Middle	2nd		
PS338T	Anika	Kalra	The Node of the Tennis Racket	Jason Miller	Pine Valley Middle	2nd		
PS341T	Sirisha	Chintalapati	Salt and Temperature's Effect on Dissolved Oxygen in Water	Pam Serzen-Dayton	Iron Horse Middle	2nd		
PS341T	Chandana	Kothur	Salt and Temperature's Effect on Dissolved Oxygen in Water	Pam Serzen-Dayton	Iron Horse Middle	2nd		
PS341T	Linda	Ye	Salt and Temperature's Effect on Dissolved Oxygen in Water	Pam Serzen-Dayton	Iron Horse Middle	2nd		
PL 201	Lia	Dawson	Anemotropism: A Study of the Effect of Wind on Vines	Robin Groch	San Ramon Valley High	2nd		

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<i>3rd Place</i>								
AS 202	Bryce	Maniex	Effect of Light on Leech Drainage of Fluids`	Robin Groch	San Ramon Valley High	3rd	Northern California Branch of the American Association for Laboratory Science (1st Place)	
AS 206	Emma	Tyrrell	The Story Behind the Horse: How Different Horses Behave Differently	Robin Groch	San Ramon Valley High	3rd		
AS 224	Dana	Austin	The Effect of Tooth Brushing on the Bacteria in Dog and Human Mouths	Robin Groch	San Ramon Valley High	3rd		
AS 230	Tyler	Donohue	Effect of Electromagnetic Radiation on Harvester Ants	Robin Groch	San Ramon Valley High	3rd		
AS401T	Darren	Poon	Moisture's Effect on Nitrate Production by Worms	Meghan Faerber	Monte Vista High	3rd		
AS401T	Jack	Thakar	Moisture's Effect on Nitrate Production by Worms	Meghan Faerber	Monte Vista High	3rd		
BE 108	Adam	Ball	Ads Are for Kids!	Suzette Takei	Sunol Glen Middle	3rd		
BC 201	Logan	Silliman	The Effect of Chlorine on Different Types of Hair: Do Only Blondes Turn Green?	Robin Groch	San Ramon Valley High	3rd		
BC 227	Jennifer	Lee	Identifying Flower Pigments Using Electrophoresis	Janet Kaehms	Dublin High	3rd		
BL 102	Ben	Waterson	"SLICK"	Jeanine Gillengerten	St. Raymond	3rd		
BL 103	Megan	Chin	Sugar Rush	Regina Brinker	Christensen Middle	3rd		
BL 109	Nilam	Patel	The Effect of Oil Spills on Plants	Pam Serzen-Dayton	Iron Horse Middle	3rd		
BL 111	Rubi	Soto	Antibacterial Soap: Is It Worth It?	Tiffany Burkle	Junction Avenue Middle	3rd	LLNL Bioscience and Biotechnology Group Leaders (HS)	
BL301T	Kinza	Maqsood	Stop! Are You Thinking About What You Are Drinking Before You Drink It?	Christy Tyler	Gale Ranch Middle	3rd		
BL301T	Palak	Suri	Stop! Are You Thinking About What You Are Drinking Before You Drink It?	Christy Tyler	Gale Ranch Middle	3rd		
BL305T	Ritu	Muralidharan	Measuring the Amount of Unsaturated Fatty Acids in Various Oils	Pam Serzen-Dayton	Iron Horse Middle	3rd		
BL305T	Kriti	Nivsarkar	Measuring the Amount of Unsaturated Fatty Acids in Various Oils	Pam Serzen-Dayton	Iron Horse Middle	3rd		
CM 202	Elizabeth	Danial	The Effect of Leucine and Valine on Baker's Yeast (<i>Saccharomyces Cerevisiae</i>)	Meghan Faerber	Monte Vista High	3rd		
CS 210	Naveen	Chakicherla	A Statistical Method to Model Complexity and Popularity in Music	Robert Gendron	Dougherty Valley High	3rd		
ET404T	Samvika	Mehra	Lights! Wind! Action!	Joanna Condon	California High	3rd	U.S. Air Force; Topcon Positioning Systems	
ET404T	Dvir	Reif	Lights! Wind! Action!	Joanna Condon	California High	3rd	U.S. Air Force; Topcon Positioning Systems	
ET405T	Brenna	Botzheim	The Power of Sand	Susan Johnston	Livermore High	3rd	Ricoh Americas Corporation; Sustainable Designs	
ET405T	Laila	Hassen	The Power of Sand	Susan Johnston	Livermore High	3rd	Ricoh Americas Corporation; Sustainable Designs	
ET405T	Areli	Hernandez	The Power of Sand	Susan Johnston	Livermore High	3rd	Ricoh Americas Corporation; Sustainable Designs	
EN 202	Tushar	Kundu	Peace of Mind: A Bracelet Activated Lock to Safely House Autistic Children	Jeannine Leiter	Quarry Lane	3rd		
EN401T	Jenna	Lee	Drinking Water From the Ocean: Desalination	Meghan Faerber	Monte Vista High	3rd	Stockholm Junior Water Prize (3rd Place); Sustainable Designs	
EN401T	Sasha	Sirovica	Drinking Water From the Ocean: Desalination	Meghan Faerber	Monte Vista High	3rd	Stockholm Junior Water Prize (3rd Place); Sustainable Designs	
EN401T	Matthew	Uhalde	Drinking Water From the Ocean: Desalination	Meghan Faerber	Monte Vista High	3rd	Stockholm Junior Water Prize (3rd Place); Sustainable Designs	
EN405T	Christopher	DaSilva	Scales - Clothing With Built-in Anatomical Protection and Support	Jeannine Leiter	Quarry Lane	3rd		

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EN405T	Lewis	Moffat	Scales - Clothing With Built-in Anatomical Protection and Support	Jeannine Leiter	Quarry Lane	3rd		
EM 201	Catherine	Ziegler	Can Wonder Microbes Actually Clean Up Oil Spills Safely?	Robin Groch	San Ramon Valley High	3rd		
EM401T	Dominique	Arotzarena	An Oily Mess	Robin Groch	San Ramon Valley High	3rd		
EM401T	Logan	Barr	An Oily Mess	Robin Groch	San Ramon Valley High	3rd		
EV 228	Lance	Chou	The Effect of Alkalinity of Ocean Water on Brine Shrimp: Adverse Effects of Pollution	Robin Groch	San Ramon Valley High	3rd		
EV402T	Lucy	Guo	Effects of Different Magnetic Fields on Plant Growth	Greg Martinez	Foothill High	3rd		
EV402T	Linus	Ho	Effects of Different Magnetic Fields on Plant Growth	Greg Martinez	Foothill High	3rd		
EV402T	Michael	Kang	Effects of Different Magnetic Fields on Plant Growth	Eric Thiel	Amador Valley High	3rd		
MH 202	Jordan	Acacio	Can You Trust Your Vision; Why Things Appear to Disappear	Eugene Mizusawa, Dr	Quarry Lane	3rd		
MH 203	Rahul	Doraiswami	Diagnosing Prostate Cancer Using Extra-Cellular Signaling	Greg Martinez	Foothill High	3rd		
MH 210	Shauheen	Ladjevardi	In Vitro Testing of the Bioavailability of Insulin in Caco-2 Cell Culture	Eugene Mizusawa, Dr	Quarry Lane	3rd		
MB 211	Vishank	Jain-Sharma	Is the "Five Second Rule" Fact or Fiction?	Meghan Faerber	Monte Vista High	3rd		
MB401T	Maryann	Gong	An Apple a Day Keeps the Harmful Microorganisms Away	Elizabeth Lopez	Granada High	3rd		
MB401T	Grant	Salk	An Apple a Day Keeps the Harmful Microorganisms Away	Elizabeth Lopez	Granada High	3rd		
MB402T	Michaela	Gwynn	A Study of Bacteria on Pizza Boxes: Is America's Most Loved Food Safe?	Robin Groch	San Ramon Valley High	3rd		
MB402T	Claire	Hoffman	A Study of Bacteria on Pizza Boxes: Is America's Most Loved Food Safe?	Robin Groch	San Ramon Valley High	3rd		
MB405T	Lea	Palumbo	The Reliability of Dog Waste Bags on Blocking Out Harmful Bacteria	Robin Groch	San Ramon Valley High	3rd		
MB405T	Morgan	Pearce	The Reliability of Dog Waste Bags on Blocking Out Harmful Bacteria	Robin Groch	San Ramon Valley High	3rd		
PS 109	Nicole	Schaarschmidt	Oil Turmoil: Can Oil Be Removed From Water?	Jeanine Gillengerten	St. Raymond	3rd		
PS 110	Amir	Hashemizad	Reactionless Drives: Fact or fiction?	Julie Cilenti	Diablo Vista Middle	3rd		
PS 123	Nicolas	Kauffman	Wind Energy	Jason Miller	Pine Valley Middle	3rd	Sustainable Designs	
PS 124	Sara	Mount	Making a Better Battery through Hydrogen Electrolysis	Monica Winter	Livermore Valley Charter	3rd		
PS 125	Shisheer	Havangi	"Go" Cart Project	Larissa Herrera	Pine Valley Middle	3rd		
PS 129	Micaela	Gallegos	Simultaneous Comparison of Ground Level Ozone in 3 Countries	Regina Brinker	Christensen Middle	3rd		
PS 131	Eddie	Cano	Altitude Rewritten II	Jeanine Gillengerten	St. Raymond	3rd		
PS 132	Blaz	Perko	How to Get Clean Water	Jeanine Gillengerten	St. Raymond	3rd		
PS 135	Chandni	Mistry	Taking it to a Deeper Level	Sarah Laake	Iron Horse Middle	3rd		
PS 137	Sierra	Dewey	Foiling With Heat	Jason Miller	Pine Valley Middle	3rd		
PS 154	Lily	Sullins	Vitamin C Content	Suzette Takei	Sunol Glen Middle	3rd		
PS 160	Alexis	Viengmyxay	Muffin + More = Thinner?	Debra Irvin	Pine Valley Middle	3rd		
PS303T	Jane	Leong	"Sham-Towel"	Kent Heckenlively	Gale Ranch Middle	3rd		
PS303T	Julie	Lim	"Sham-Towel"	Linda Seipel	Gale Ranch Middle	3rd		
PS303T	Brittany	Tran	"Sham-Towel"	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS304T	Akhil	Harapanahalli	Liquid Ph Safety	Kimberly Cullen	Windemere Ranch Middle	3rd		
PS304T	Yash	Sanghrajka	Liquid Ph Safety	Kimberly Cullen	Windemere Ranch Middle	3rd		
PS304T	Vishal	Swaminathan	Liquid Ph Safety	Kimberly Cullen	Windemere Ranch Middle	3rd		
PS310T	Skyler	Gin	Everlasting Nails	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS310T	Juyun	Park	Everlasting Nails	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS313T	Nikky	Cherukuthota	Water Distillation by Solar Energy	Christy Tyler	Gale Ranch Middle	3rd		
PS313T	Jasmine	Sandhu	Water Distillation by Solar Energy	Christy Tyler	Gale Ranch Middle	3rd		

Exhibit No.	First Name	Last Name	Project Title	Teacher	School Name	Award Received	Special Award(s)	SweepStakes Winner
PS317T	Ronald	Kam	Green Power	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS317T	Daniel Won Jun	Lee	Green Power	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS317T	Bodhi	Nguyen	Green Power	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS319T	Jacob	Rakestraw	Solar Racers: Are They More Efficient Than Battery Powered Cars?	Lindsay Abbott	Livermore Valley Charter	3rd		
PS319T	Parker	Turk	Solar Racers: Are They More Efficient Than Battery Powered Cars?	Lindsay Abbott	Livermore Valley Charter	3rd		
PS320T	Sameer	Reddy	Desalination by Evaporation	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS320T	Tejas	Vajjhala	Desalination by Evaporation	Barbara Weisbrod	Gale Ranch Middle	3rd		
PS321T	Tanner	Christoff	Windy Days: What Is the Most Effective Wind Turbine Design?	Lindsay Abbott	Livermore Valley Charter	3rd		
PS321T	Claire	Proudfoot	Windy Days: What Is the Most Effective Wind Turbine Design?	Lindsay Abbott	Livermore Valley Charter	3rd		
PS333T	Henry	Sun	Finding the Resistance of Different Water Temperatures	Pam Serzen-Dayton	Iron Horse Middle	3rd		
PS333T	Christopher	Wong	Finding the Resistance of Different Water Temperatures	Pam Serzen-Dayton	Iron Horse Middle	3rd		
PS339T	Sarah	Mamoon	The Greenhouse Effect	Pam Serzen-Dayton	Iron Horse Middle	3rd	Association for Women Geoscientists	
PS339T	Faith	McGary	The Greenhouse Effect	Pam Serzen-Dayton	Iron Horse Middle	3rd	Association for Women Geoscientists	
PS340T	Gino	Belluomini	Splatter of a Paintball	Tiffany Burkle	Junction Avenue Middle	3rd		
PS340T	Chris	Hinds	Splatter of a Paintball	Tiffany Burkle	Junction Avenue Middle	3rd		
PH 203	Mitchell	Jakubka	Kicking Technique vs. Strength	Steven Giles	Livermore High	3rd		
PL 204	Gautam	Ramesh	Effects of Ethylene Gas on Bananas	Meghan Faerber	Monte Vista High	3rd	Northern California Institute of Food Technology (2nd Place)	
PL406T	Anusha	Suresh	Off With the Weeds!	Robin Groch	San Ramon Valley High	3rd		
PL406T	Megan	Tsang	Off With the Weeds!	Robin Groch	San Ramon Valley High	3rd		
PL408T	Aubrianna	Decker	Cucumis Sativus	Steven Giles	Livermore High	3rd		
PL408T	Sadie	Serdahl	Cucumis Sativus	Steven Giles	Livermore High	3rd		

Exhibit No.	First Name	Last Name	Project Title	Teacher	School Name	Award Received	Special Award(s)	SweepStakes Winner
<i>Honorable Mention</i>								
BE 103	Elizabeth	Betchart	Your Favorite Side	Suzette Takei	Sunol Glen Middle	HM		
BE301T	Nic	Aliski	Marketing for Kids	Pam Serzen-Dayton	Iron Horse Middle	HM		
BE301T	Elliott	Allison	Marketing for Kids	Pam Serzen-Dayton	Iron Horse Middle	HM		
BE301T	Max	Walker	Marketing for Kids	Pam Serzen-Dayton	Iron Horse Middle	HM		
BE305T	Helen	Meng	White is Just Right	Pam Serzen-Dayton	Iron Horse Middle	HM		
BE305T	Vidhi	Sachdeva	White is Just Right	Pam Serzen-Dayton	Iron Horse Middle	HM		
BL 108	Eric	Gateno	Varying Water pH Levels and their Effects on Calcium Carbonate	Lindsay Abbott	Livermore Valley Charter	HM		
BL 113	Caroline	Zhou	The Affect of Cooking Time on Different Plants	Pam Serzen-Dayton	Iron Horse Middle	HM		
BL303T	Amanda	Agustin	The Female Fingerprint	Pam Serzen-Dayton	Iron Horse Middle	HM		
BL303T	Gillian	Kutrosky	The Female Fingerprint	Pam Serzen-Dayton	Iron Horse Middle	HM		
BL313T	Jocelyn	Hart	Yuck! What Happened to My Fruit?	Tiffany Burkle	Junction Avenue Middle	HM		
BL313T	Kelsey	Pettis	Yuck! What Happened to My Fruit?	Tiffany Burkle	Junction Avenue Middle	HM		
ET 206	Vivian	Connolly	Hydropower	Steven Giles	Livermore High	HM		
ET 208	Deepak	Matharu	Infinite Miles to the Gallon	Joanna Condon	California High	HM	U.S. Navy (HS-2nd Place); Chevron (HS-3rd Place)	
ET403T	Jacqueline	Almeida	The Effect of Various Insulators on the Temperature of Solar Ovens	Steven Giles	Livermore High	HM		
ET403T	Kate	Twesten	The Effect of Various Insulators on the Temperatures of Solar Ovens	Steven Giles	Livermore High	HM		
EN 208	Alexander	Cyr	VOLP (Voice Over Light Protocol)	David Foster	Granada High	HM		
EN 213	Jaein	Sung	A Medicine Container With an Alarm	Eugene Mizusawa, Dr	Quarry Lane	HM	U.S. Air Force	
EN 225	Taylor	Disbrow	Wind Energy	Steven Giles	Livermore High	HM	U.S. Air Force	
EN411T	Alyssa	Lanza	Flaming Fancy Feet	Susan Johnston	Livermore High	HM		
EN411T	Emily	Perry	Flaming Fancy Feet	Susan Johnston	Livermore High	HM		
EN411T	Haley	Vopnford	Flaming Fancy Feet	Susan Johnston	Livermore High	HM		
EV 201	Adam	Shaw	The Effect of Recycled Water on the Growth and Biofuel of Algae	Robin Groch	San Ramon Valley High	HM		
EV 208	Jacob	Brisco	The Effect of Temperature Increases on the Water Level	Steven Giles	Livermore High	HM		
EV 222	Sam	Barish	The Effect of Photodegraded Plastic on Daphnia	Julie Bitnoff	California High	HM		
EV 227	Johannes	Fischer	Effect of Prolonged Shutoff of the Water on Bacterial Growth in Domestic Water Heating Systems	Meghan Faerber	Monte Vista High	HM	Zone 7 Water	
EV403T	Soyun	Park	Effects of Different Oil Disperents on Spilled Oil	Katherine Huang	Dougherty Valley High	HM		
EV403T	Amanda	Sugijoto	Effects of Different Oil Disperents on Spilled Oil	Katherine Huang	Dougherty Valley High	HM		
EV404T	Marshall	Krock	Polar Bear Meltdown	Meghan Faerber	Monte Vista High	HM	Tri-Valley Conservancy (HS)	
EV404T	Hans	Lee	Polar Bear Meltdown	Meghan Faerber	Monte Vista High	HM	Tri-Valley Conservancy (HS)	
EV411T	Amanda	Rawashdeh	Effects of Oil on Land vs. Water Plants	Steven Giles	Livermore High	HM		
EV411T	Priya	Sri-Tharan	Effects of Oil on Land vs. Water Plants	Steven Giles	Livermore High	HM		
EV412T	Alex	Ma	The Effect of High Fructose Corn Syrup on Earthworms	Robin Groch	San Ramon Valley High	HM		
EV412T	Tavneet	Sidhu	The Effect of High Fructose Corn Syrup on Earthworms	Robin Groch	San Ramon Valley High	HM		
EV417T	Sai	Alam	Testing Water Pollution with Plants	Doug Mason	California High	HM	U. S. Army	
EV417T	Anand	Kannan	Testing Water Pollution with Plants	Joanna Condon	California High	HM	U. S. Army	
MC 103	Jacob	Gilbreth	E911 Voice Analysis	Larissa Herrera	Pine Valley Middle	HM		
MH 204	Christina	Guilford	Researching Resveratrol's Replenishment: A Study of It's Effect on Life Longevity in Drosophila Melanogaster	Frankie Tate	Granada High	HM	Northern California Branch of the American Association for Laboratory Science (3rd Place)	
MB 210	Ariana	Moghbel	Browsing Through Bacteria: A Study on Bacterial Growth	Robin Groch	San Ramon Valley High	HM		

Exhibit No.	First Name	Last Name	Project Title	Teacher	School Name	Award Received	Special Award(s)	SweepStakes Winner
MB 215	Sean	Jaffe	The Effect of UV Light on Agrobacterium Tumefaciens Induced Tumors	Robin Groch	San Ramon Valley High	HM		
MB406T	Akshay	Aitha	The Effect of Pollution on Protist Populations in the Bay Area	Janet Kaehms	Dublin High	HM		
MB406T	Aaron	Yu	The Effect of Pollution on Protist Populations in the Bay Area	Janet Kaehms	Dublin High	HM		
PS 105	Vikas	Ravi	Efficient Fan Designs	Britt Peterson	Windemere Ranch Middle	HM		
PS 111	Ali	Haider	Chasing "Free" Energy	Lindsay Abbott	Livermore Valley Charter	HM		
PS 112	Daniel	Han	The Cabbage Litmus Paper	Kent Heckenlively	Gale Ranch Middle	HM		
PS 116	Vivian	Huang	Tick Tock Potatoes	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS 136	Jesse	Gao	Water Conductivity at Different Temperatures	Jason Miller	Pine Valley Middle	HM		
PS 141	Isaiah	Lewis	Weight vs. Velocity	Larissa Herrera	Pine Valley Middle	HM		
PS 145	Morgan	Yee	Soda Can Micro-Desalinization	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS 155	Dhanush	Patel	Don't Press Me Hard	Jason Miller	Pine Valley Middle	HM		
PS305T	Pooja	Kini	RIPRCIP Is So Not Music	Barbara Weisbrod	Gale Ranch Middle	HM		
PS305T	Sarah	Lee	RIPRCIP Is So Not Music	Barbara Weisbrod	Gale Ranch Middle	HM		
PS307T	Siddharth	Kotapati	Desalinization Machine	Kimberly Cullen	Windemere Ranch Middle	HM	Zone 7 Water	
PS307T	Rishabh	Rao	Desalinization Machine	Kimberly Cullen	Windemere Ranch Middle	HM	Zone 7 Water	
PS307T	Wesley	Wang	Desalinization Machine	Kimberly Cullen	Windemere Ranch Middle	HM	Zone 7 Water	
PS316T	Taylor	Lewis	Fabric on Fire: Which Fabric Was the Most Fire Resistant?	Monica Winter	Livermore Valley Charter	HM		
PS316T	Avni	Patel	Fabric on Fire: Which Fabric Was the Most Fire Resistant?	Monica Winter	Livermore Valley Charter	HM		
PS322T	Abhi	Ilindra	Temperature and Electrical Conductivity	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS322T	Trevor	Salaver	Temperature and Electrical Conductivity	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS323T	Kristine	Lacson	Fruity Appeal	Kent Heckenlively	Gale Ranch Middle	HM		
PS323T	Megha	Patel	Fruity Appeal	Barbara Weisbrod	Gale Ranch Middle	HM		
PS323T	Sophie	To	Fruity Appeal	Kent Heckenlively	Gale Ranch Middle	HM		
PS326T	Alberta	Wang	Amount of Sulfate in Water	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS326T	Kaila	Young	Amount of Sulfate in Water	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS326T	Jasmine	Zhu	Amount of Sulfate in Water	Pam Serzen-Dayton	Iron Horse Middle	HM		
PS329T	Brenda	Hernandez	Are You Safe in Your Clothes?	Tiffany Burkle	Junction Avenue Middle	HM		
PS329T	Abril	Ramirez	Are You Safe in Your Clothes?	Tiffany Burkle	Junction Avenue Middle	HM		
PS335T	Neil	Gupta	Parachutes	Jason Miller	Pine Valley Middle	HM		
PS335T	Shailen	Patel	Parachutes	Jason Miller	Pine Valley Middle	HM		
PS342T	Dion	Chang	Moon Crater Plane: The Golf Ball Effect on an Airplane	Barbara Weisbrod	Gale Ranch Middle	HM		
PS342T	Brandon	Lee	Moon Crater Plane: The Golf Ball Effect on an Airplane	Barbara Weisbrod	Gale Ranch Middle	HM		
PS342T	Cameron	Mew	Moon Crater Plane: The Golf Ball Effect on an Airplane	Linda Seipel	Gale Ranch Middle	HM		
PH 201	Ciaron	Bench	The Effect of Earth's Magnetic Field on Cosmic Rays	Raj Virk	Livermore Valley Charter	HM	American Meteorological Society; American Vacuum (HS-2nd Place); U. S. Army	
PL 202	Robert	Shi	Does Protein Enhance the Growth of Plants?	Steven Giles	Livermore High	HM		
PL 205	Victoria	Dragon	The Effect of Music on Plant Growth	Steven Giles	Livermore High	HM		
PL401T	Andrew	Halle	The Effect of Salt Water on Rice Plant Growth: A Study for the Future	Robin Groch	San Ramon Valley High	HM		
PL401T	Jeff	McGill	The Effect of Salt Water on Rice Plant Growth: A Study for the Future	Robin Groch	San Ramon Valley High	HM		
PL402T	Sabrina	Chiang	C vs. A+B vs. D+E: the Vitamin Battle	Meghan Faerber	Monte Vista High	HM		
PL402T	Hanbin	Cho	C vs. A+B vs. D+E: the Vitamin Battle	Meghan Faerber	Monte Vista High	HM		
PL403T	Domenic	Bottini	Electricity and Plants	Dina Anderson	California High	HM		
PL403T	Jonathan	Chan	Electricity and Plants	Dina Anderson	California High	HM		

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<i>Special Awards</i>								
BL310T	Augustine	Chemparathy	How Much Pollution Does My Soil Hold? The Correlation Between Soil Composition and Pollution Absorbence	Christy Tyler	Gale Ranch Middle	Special	Tri-Valley Conservancy (JR)	
BL310T	Rishi	Krishnan	How Much Pollution Does My Soil Hold? The Correlation Between Soil Composition and Pollution Absorbence	Christy Tyler	Gale Ranch Middle	Special	Tri-Valley Conservancy (JR)	
BL310T	Saranesh	Prembabu	How Much Pollution Does My Soil Hold? The Correlation Between Soil Composition and Pollution Absorbence	Barbara Weisbrod	Gale Ranch Middle	Special	Tri-Valley Conservancy (JR)	
EN 203	Dong Wuk	Kim	Investigating the Aerodynamics of Dandelion Seeds to Develop a Parachute	Eugene Mizusawa, Dr	Quarry Lane	Special	U.S. Air Force	
EN 206	Parker	Newton	Multi-touch Interactive Desk	Jeannine Leiter	Quarry Lane	Special	U. S. Army	
MA401T	Amanda	Kershaw	Use of Math to Understand Scaling and Perspective in Art	Jeannine Leiter	Quarry Lane	Special	U. S. Army	
MA401T	Amy	Kim	Use of Math to Understand Scaling and Perspective in Art	Jeannine Leiter	Quarry Lane	Special	U. S. Army	
PS 104	Matthew	Yeung	Photovoltaic Sun Tracker Apparatus Performance Factors	Jason Miller	Pine Valley Middle	Special	Chevron (JR-2nd Place); American Vacuum (JR-3rd Place)	