

Lehigh Valley Science Fair 2019

Awards List

Senior Fair (A) - Behavior & Social Sciences (100)

Award		Project	Del Val
1st Place	A0101	<i>The Difference Between Handwriting And Typing Notes For Memory Retention</i> Havyn Steele - Bangor Area High School Sponsor - Robert Hachtman	<input checked="" type="checkbox"/>

Senior Fair (A) - Computer (500)

Award		Project	Del Val
1st Place	A0501	<i>Implementation Of Radio-Frequency Identification (RFID) Technology For Student Information Within Public School Buildings</i> Gulnur Avci - Bangor Area High School Sponsor - Robert Hachtman	<input checked="" type="checkbox"/>

Senior Fair (A) - Environmental (800)

Award		Project	Del Val
1st Place	A0802	<i>The Effect Of Riparian Buffers Size On The Concentration Of Nitrate In Streams</i> Rachel Kromer - Bangor Area High School Sponsor - Robert Hachtman	<input checked="" type="checkbox"/>

Senior Fair (A) - Medicine & Health (1100)

Award		Project	Del Val
1st Place	A1101	<i>Direct Aviation Of GABA Receptor By Citrus Aurantium Bergamia Utilizing Xenopus Laevis Oocytes Extracted Via Laparoscopic Surgery: Characterization Of A Novel Modulator Comparable To Benzodiazepines</i> Sriyaa Suresh - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Senior Fair (A) - Microbiology (1200)

Award		Project	Del Val
1st Place	A1204	<i>Effects OF Caffeine On Gut Bacteria</i> Isabel Smith - Bangor Area High School Sponsor - Robert Hachtman	<input checked="" type="checkbox"/>
2nd Place	A1203	<i>The Importance Of Completing Your Antibiotic Regiment</i> Morgan Shriver - Bangor Area High School Sponsor - Robert Hachtman	<input checked="" type="checkbox"/>

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3rd Place	A1201	<i>The Effects OF Sugar Alcohol On Gastrointestinal Normal Flora</i>	<input checked="" type="checkbox"/>
		Nicola Kaye - Bangor Area High School	
		Sponsor - Robert Hachtman	
Honorable Mention	A1202	<i>The Effects of Absorbic Acid On Bacterial Growth</i>	<input type="checkbox"/>
		Abigail LaCour - Bangor Area High School	
		Sponsor - Robert Hachtman	

Senior Fair (A) - Physics (1300)

Award		Project	Del Val
1st Place	A1301	<i>Heat Loss Through A Wall Made With Optimized Insulating Bricks</i>	<input checked="" type="checkbox"/>
		Isha Mohapatra - Moravian Academy	
		Sponsor - Gabriella Dee	

Senior Fair (A) - Zoology (1400)

Award		Project	Del Val
1st Place	A1402	<i>The Effect OF Essential Oil Scents On Cricket Respiration</i>	<input checked="" type="checkbox"/>
		Grace Dougherty - Bangor Area High School	
		Sponsor - Robert Hachtman	
2nd Place	A1403	<i>Resource Holding Potential In Blue Gill Sunfish</i>	<input checked="" type="checkbox"/>
		Doug Toth - Bangor Area High School	
		Sponsor - Robert Hachtman	
3rd Place	A1401	<i>The Effects Of Salinity On The Photosynthetic Performance Of Zooxanthellae In Sea Anemones</i>	<input checked="" type="checkbox"/>
		Jessica Baggett - Bangor Area High School	
		Sponsor - Robert Hachtman	

Senior Fair (A) - Team Projects (1500)

Award		Project	Del Val
1st Place	A1501	<i>The Effect Of Invertase On The Coverion Of Sucrose To Glucose Concentrations on Conventional Household Foods</i>	<input checked="" type="checkbox"/>
		Paras Chand - Freedom High School	
		Morgan Philpot - Freedom High School	
		Sponsor - Graceanne Ruggiero	

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Junior Fair (B) - Behavior & Social Sciences (100)

Award		Project	Del Val
1st Place	B0101	<i>What Can Rock-Paper-Scissors Tell Us About Cheating And Game Theory?</i> Stephanie Sipics - Emmaus High School Sponsor - Brent Landrum	<input checked="" type="checkbox"/>
2nd Place	B0102	<i>Hatred Of sound: An Investigation Into The Effects Of Misophonia</i> Avi Singh - Moravian Academy Sponsor - Gabriella Dee	<input checked="" type="checkbox"/>

Junior Fair (B) - Chemistry (400)

Award		Project	Del Val
1st Place	B0401	<i>Oil-Based cleaning</i> Krishna Dihora - Southern Lehigh High School Sponsor - Rachel Saber	<input checked="" type="checkbox"/>

Junior Fair (B) - Computer (500)

Award		Project	Del Val
1st Place	B0505	<i>Low-Cost Device for Automatic Diagnosis Using Deep Learning Methods</i> Neil Deshmukh - Moravian Academy Sponsor - Gabriella Dee	<input checked="" type="checkbox"/>
2nd Place	B0503	<i>Computer Generated Music - Can It Pass The Turing Test?</i> Stefania Schoen - Emmaus High School Sponsor - Brent Landrum	<input checked="" type="checkbox"/>
3rd Place	B0502	<i>Predicting Glioblastoma Progress And Response Using Machine Learning</i> Arjun Vedantham - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
Honorable Mention	B0501	<i>Predicting The Dominant H3N2 Influenza Strain Using African Neural Network</i> Farid Shahid - Parkland High School Sponsor - Michael Post	<input type="checkbox"/>

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Junior Fair (B) - Engineering (700)

Award		Project	Del Val
1st Place	B0701	<i>Developing Greater Protective And Preventative Measures To Mitigate The Detrimental Effects Of Chronic Traumatic Encephalopathy And Initial Contact Head Injuries</i> Punya Bhasin - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	B0702	<i>Microfabrication Rapid Prototyping Machine</i> Harper Chisari - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Junior Fair (B) - Medicine & Health (1100)

Award		Project	Del Val
1st Place	B1102	<i>Using optical Coherence Tomography to Cardiovascular Diseases In Drosophila Melanogaster</i> Rhea Malhotra - Moravian Academy Sponsor - Gabriella Dee	<input checked="" type="checkbox"/>
2nd Place	B1103	<i>Auto-AI Method That Self-Learns By Looking At Minimal Amount Of Medical Images</i> Briana Malik - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Junior Fair (B) - Physics (1300)

Award		Project	Del Val
1st Place	B1301	<i>The Most Effective Implementation Of A Certain Airfoil That Will Allow For More Lift</i> Sohaib Nauman - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	B1302	<i>Are Fluorescent Lights and LED Lights Harmful To Your Eyes?</i> Ishaan Lal - Emmaus High School Sponsor - Brent Landrum	<input checked="" type="checkbox"/>

Junior Fair (B) - Zoology (1400)

Award		Project	Del Val
1st Place	B1401	<i>The Effects Of Temperature On The Relationship Between Zooxanthellae And Sea Anemone</i> Logan Anema - Bangor Area High School Sponsor - Robert Hachtman	<input checked="" type="checkbox"/>

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Sophomore Fair (C) - Behavior & Social Sciences (100)

Award		Project	Del Val
1st Place	C0104	<i>Incentives: The Impetus for Performing Well</i> Anam Ali - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	C0103	<i>How good Are People At Multitasking? And, What Is the Effect Of cognitive Dissonance One Their Self-Perception On Multitasking Ability?</i> Pandora Schoen - Emmaus High School Sponsor - Brent Landrum	<input checked="" type="checkbox"/>
3rd Place	C0102	<i>Wait... Am I Rght?</i> Snehal Gupta - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Sophomore Fair (C) - Biochemistry (200)

Award		Project	Del Val
1st Place	C0201	<i>Text Box</i> Tanya Mehta - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	C0204	<i>The Effects Of Ultraviolet Rays On Yeast Colony Growth</i> Saakshi Girotra - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
3rd Place	C0203	<i>PeriTect: Early Detection and Prevention of Peritonitis in Kidney Dialysis Patients</i> Purva Gupta - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
Honorable Mention	C0205	<i>Implementation Of Computational Techniques To Develop Effective Way To Drug Delivery</i> Gokul Perugu - Parkland High School Sponsor - Michael Post	<input type="checkbox"/>

Sophomore Fair (C) - Chemistry (400)

Award		Project	Del Val
1st Place	C0401	<i>The Effects of Radiation on the Decomposition of Silver Chloride</i> Caitlin O'Brien - Emmaus High School Sponsor - Brent Landrum	<input checked="" type="checkbox"/>

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2nd Place	C0402	<i>The Effect Of Temperature On Fuel Cell Efficiency</i>	<input checked="" type="checkbox"/>
		Mustapha Salau - Parkland High School	
		Sponsor - Michael Post	
3rd Place	C0404	<i>Selective Deuteration Of Hterocycles Using A Sm2-H2) System</i>	<input checked="" type="checkbox"/>
		Akshatha Manjunatha - Parkland High School	
		Sponsor - Michael Post	
Honorable Mention	C0403	<i>The Chemistry Of Developing Film</i>	<input type="checkbox"/>
		Nader Rifai - Moravian Academy	
		Sponsor - Gabriella Dee	

Sophomore Fair (C) - Computer (500)

Award		Project	Del Val
1st Place	C0501	<i>A Geometric Analysis Of Protein Structures To Predict Mutations That Cause Drug-Resistance</i>	<input checked="" type="checkbox"/>
		Udit Garg - Parkland High School	
		Sponsor - Michael Post	

Sophomore Fair (C) - Engineering (700)

Award		Project	Del Val
1st Place	C0706	<i>A Novel Implementation Of Localized Protuberances On The Leadeing Edge Of A Hydrofoil</i>	<input checked="" type="checkbox"/>
		Dharshan Tharumia - Parkland High School	
		Sponsor - Michael Post	
2nd Place	C0705	<i>High Data Rate Non-Line-Of-Sight Underwater Wireless Optical Communication</i>	<input checked="" type="checkbox"/>
		Ee-Ning Ooi - Parkland High School	
		Sponsor - Michael Post	
3rd Place	C0702	<i>Computational Modeling Of A Waveguide Using FDTD</i>	<input checked="" type="checkbox"/>
		Ronak Singh - Parkland High School	
		Sponsor - Michael Post	
Honorable Mention	C0701	<i>Development Of A novel Adaptive Wind Turbine Blade</i>	<input type="checkbox"/>
		Vedavyas Jampanaboyana - Parkland High School	
		Sponsor - Michael Post	
Honorable Mention	C0704	<i>Methods Of 3D Printing</i>	<input type="checkbox"/>
		Layan Suleiman - Parkland High School	
		Sponsor - Michael Post	

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Sophomore Fair (C) - Environmental (800)

Award		Project	Del Val
1st Place	C0804	<i>Using A Leaf-Based electrolyte To Generate energy With A Photovoltaic Light Sensitive Dielectric Capacitor</i> Taran Anantasagar - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	C0803	<i>Identifying The Best Liquid Organic Hydrogen Carrier For Transportation</i> Sanjiv Parthasarathy - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
3rd Place	C0802	<i>Fuel It Up: Converting Trash and Biofuel</i> Aashika Shah - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Sophomore Fair (C) - Mathematics (1000)

Award		Project	Del Val
1st Place	C1001	<i>Applications Of Stokes' Theorem on Complex Manifolds</i> Suchir Agarwal - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	C1002	<i>A New Perspective Of Geometry: The Projective And Hyperbolic Spaces</i> Neha Skandan - Moravian Academy Sponsor - Gabriella Dee	<input checked="" type="checkbox"/>

Sophomore Fair (C) - Medicine & Health (1100)

Award		Project	Del Val
1st Place	C1101	<i>Re Envisioning Erythrocyte Dynamics: Computational vs. Experimental Modeling OF RBC In Capillary Shearing</i> Prathysha Kothare - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Sophomore Fair (C) - Microbiology (1200)

Award		Project	Del Val
1st Place	C1201	<i>Effacious And Effectual Antifungal Natural Remedies?</i> Rachel Li - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

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Sophomore Fair (C) - Physics (1300)

Award		Project	Del Val
1st Place	C1301	<i>Efficient Computational Electromagnetics Modeling For The Optimization Of Nanoscale Devices</i> Ankhitha Manjunatha - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Biochemistry (200)

Award		Project	Del Val
1st Place	D0201	<i>The Effect Of Light On Yeast</i> Aishwarya Gowrishankar - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Computer (500)

Award		Project	Del Val
1st Place	D0502	<i>Developing Flexible Circuit Boards Using Graphene</i> Mikail Jaffer - Moravian Academy Sponsor - Gabriella Dee	<input checked="" type="checkbox"/>
2nd Place	D0501	<i>Learning Science Through Virtual Reality</i> Uma Purani - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
3rd Place	D0503	<i>Unmasking Parkinson's Disease In A Patient Using R</i> Lalitha Loka - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Engineering (700)

Award		Project	Del Val
1st Place	D0703	<i>Design A Nonlinear Battery Charging System For A Sun Tracking Solar Panel</i> Victor Cai - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>
2nd Place	D0701	<i>Is It Stable? Depends On The Cable!</i> James Donnelly - Freedom High School Sponsor - Graceanne Ruggiero	<input checked="" type="checkbox"/>
3rd Place	D0702	<i>Air Pollution detector</i> Veda Vundela - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

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Ninth Grade Fair (D) - Environmental (800)

Award		Project	Del Val
1st Place	D0801	<i>Heavy Metal removal From Wastewater By activated Carbon derived From Maple Leaf</i> Samit Mohapatra - Moravian Academy Sponsor - Gabriella Dee	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Microbiology (1200)

Award		Project	Del Val
1st Place	D1203	<i>Microbial Fuel Cell</i> Ansh Malik - Emmaus High School Sponsor - Brent Landrum	<input checked="" type="checkbox"/>
2nd Place	D1202	<i>The Effect Of Antibiotics On Bacterial Growth</i> Prisha Srivastava - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Physics (1300)

Award		Project	Del Val
1st Place	D1302	<i>Semiconductor Laser</i> Aditi Maheshwari - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Zoology (1400)

Award		Project	Del Val
1st Place	D1401	<i>Remediation Of Melatonin-Induced Cardiac Distress In Daphnia Magna Using A Natural Antioxidant</i> Vaishnavi Joshi - Parkland High School Sponsor - Michael Post	<input checked="" type="checkbox"/>

Ninth Grade Fair (D) - Team Projects (1500)

Award		Project	Del Val
1st Place	D1501	<i>Using Operant Conditioning to Increase Participation in a High School Classroom</i> Kiera Karve - Nazareth Area High School Emma Browning - Nazareth Area High School Sponsor - Lindsay Hoff	<input checked="" type="checkbox"/>

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Eighth Grade Fair (E) - Biochemistry (200)

Award		Project	Del Val
1st Place	E0203	<i>Optimizing Algae Growth For Sustainable Environment</i> Aishwarya Suresh - Springhouse Middle School Sponsor - Scott Bauer	<input checked="" type="checkbox"/>

Eighth Grade Fair (E) - Botany (300)

Award		Project	Del Val
1st Place	E0301	<i>What Type Of Meal Fertilizer Produces Fastest Plant Growth?</i> Daniela Fernandez - Orefield Middle School Sponsor - Brian Holtzhafer	<input checked="" type="checkbox"/>
2nd Place	E0305	<i>Do Household Chemicals Increase or Inhibit The Germination Of Seeds And The Growth Rate Of Plants?</i> Priya Tekumalla - Springhouse Middle School Sponsor - Susan Stern	<input type="checkbox"/>
3rd Place	E0304	<i>How Does Acid Rain Effect The Hight Growth Of Plants?</i> Jaeden Sistrunk - Springhouse Middle School Sponsor - Susan Stern	<input type="checkbox"/>
Honorable Mention	E0306	<i>Hydrponics vs. Soil</i> Mary Jean Thornburg - St. Theresa School Sponsor - Constance Sisko	<input type="checkbox"/>

Eighth Grade Fair (E) - Chemistry (400)

Award		Project	Del Val
1st Place	E0406	<i>The Effect Of Pottasium Permanganate Infused Zeolites On Ethylene</i> Siddhant Khandelwal - Springhouse Middle School Sponsor - Susan Stern	<input checked="" type="checkbox"/>
2nd Place	E0402	<i>How Does Changing Between Baking Soda And Baking Vinegar Affect The Height Of Muffins</i> Emily Collins - Springhouse Middle School Sponsor - Daniel Christman	<input type="checkbox"/>
3rd Place	E0411	<i>What Is The Effect Of Different Brands Of Clarinet Reeds On The amount Of Water Absorbed?</i> Meredith Schmoyer - Springhouse Middle School Sponsor - Daniel Christman	<input type="checkbox"/>
Honorable Mention	E0401	<i>What Candle Will Burn The Brightest?</i> Shayan Latif - Springhouse Middle School Sponsor - Daniel Christman	<input type="checkbox"/>

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Honorable Mention	E0412	<i>Can A Simple Solvent Dissolve Plastic?</i>	<input type="checkbox"/>
		Yan Yu - Moravian Academy Middle School	
		Sponsor - Joanne Daniels	
Honorable Mention	E0415	<i>Protein Precipitation's Effects On Protein Capacity</i>	<input type="checkbox"/>
		Andy Hill - Orefield Middle School	
		Sponsor - Brian Holtzhafer	

Eighth Grade Fair (E) - Computer (500)

Award		Project	Del Val
1st Place	E0503	<i>Virtual Vote: A Decentralized, Democratic Voting Application</i>	<input checked="" type="checkbox"/>
		Rohan Mehta - Moravian Academy Middle School	
		Sponsor - Joanne Daniels	
2nd Place	E0501	<i>IOT In Health: Designing A Smartwatch</i>	<input type="checkbox"/>
		Okezue Bell - Moravian Academy Middle School	
		Sponsor - Joanne Daniels	
3rd Place	E0502	<i>Good Job!</i>	<input type="checkbox"/>
		Sanika Kothari - Springhouse Middle School	
		Sponsor - Susan Stern	

Eighth Grade Fair (E) - Earth & Space Sciences (600)

Award		Project	Del Val
1st Place	E0601	<i>How Does The Type Of Soil Affect How Much It Compressed?</i>	<input checked="" type="checkbox"/>
		Isabella Esteban - Springhouse Middle School	
		Sponsor - Daniel Christman	

Eighth Grade Fair (E) - Engineering (700)

Award		Project	Del Val
1st Place	E0707	<i>Contactless Detection OF Vibrations Like Vital Signs Using Doppler Radar</i>	<input checked="" type="checkbox"/>
		Varun Pandian - Springhouse Middle School	
		Sponsor - Susan Stern	
2nd Place	E0703	<i>Dispensing Medications</i>	<input type="checkbox"/>
		Jarod Bloch - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
3rd Place	E0706	<i>What Is The Effect Of Speed On The Ability Of The Robot To Follow The Path?</i>	<input type="checkbox"/>
		Fudayl Niaz - Springhouse Middle School	
		Sponsor - Daniel Christman	

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Honorable Mention	E0702	<i>The Efficiency Of Various Lightbulb With Different Input Voltages</i>	<input type="checkbox"/>
		Varsha Borkar - Springhouse Middle School	
		Sponsor - Susan Stern	
Honorable Mention	E0704	<i>Thickness Of Wire vs Strength Of Magnetic Field</i>	<input type="checkbox"/>
		Joshua Chou - Springhouse Middle School	
		Sponsor - Scott Bauer	
Honorable Mention	E0708	<i>Plant Power</i>	<input type="checkbox"/>
		Aditya Singhvi - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
Honorable Mention	E0709	<i>The Effect Of Design On A Bridges Weight Capacity</i>	<input type="checkbox"/>
		Taehyuk Yang - Springhouse Middle School	
		Sponsor - Scott Bauer	

Eighth Grade Fair (E) - Environmental (800)

Award		Project	Del Val
1st Place	E0802	<i>Saving The Planet And People: A Bio-Degradable Plastic</i>	<input checked="" type="checkbox"/>
		Reva Gandhi - Springhouse Middle School	
		Sponsor - Susan Stern	
2nd Place	E0805	<i>Don't Belittle The Microbead!</i>	<input type="checkbox"/>
		Sathvika Rajkumar - Springhouse Middle School	
		Sponsor - Susan Stern	
3rd Place	E0804	<i>Blade size And Power Produced</i>	<input type="checkbox"/>
		Rithik Raghuraman - Springhouse Middle School	
		Sponsor - Susan Stern	
Honorable Mention	E0801	<i>How does Glyphosate Affect The Environment?</i>	<input type="checkbox"/>
		James Fuller - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
Honorable Mention	E0803	<i>GO Green Turbine!</i>	<input type="checkbox"/>
		Arnav Jain - Springhouse Middle School	
		Sponsor - Susan Stern	

Eighth Grade Fair (E) - Mathematics (1000)

Award		Project	Del Val
1st Place	E1001	<i>Pascal's Triangle In Cell Division</i>	<input checked="" type="checkbox"/>
		Michael Alcher - Moravian Academy Middle School	
		Sponsor - Joanne Daniels	

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Eighth Grade Fair (E) - Medicine & Health (1100)

Award		Project	Del Val
1st Place	E1107	<i>A Novel Approach To Combating Cancer Using Chelation Therapy (EDTA)</i> Vishruth Hanumaihgari - Springhouse Middle School Sponsor - Scott Bauer	<input checked="" type="checkbox"/>
2nd Place	E1104	<i>Does Tumeric Inhibit Or Slow Down Tumorigenesis In Planaria (Dugesia Tirgrina)? A Novel Approach Toward A Cure For Cancer</i> Riva Kaneria - Springhouse Middle School Sponsor - Susan Stern	<input type="checkbox"/>
3rd Place	E1101	<i>How Does Exposure To Saltwater Affect How Well Different Water Resistant Sunscreen Work?</i> Natalie McEvoy - Springhouse Middle School Sponsor - Daniel Christman	<input type="checkbox"/>
Honorable Mention	E1102	<i>What Is The Effect Of Temperature On The Ascorbic Acid Content Of Orange Juice?</i> Lucas Lee - Springhouse Middle School Sponsor - Daniel Christman	<input type="checkbox"/>
Honorable Mention	E1105	<i>Which Drink Creates The Darkest Stain On Teeth?</i> Emily Walsh - Springhouse Middle School Sponsor - Susan Stern	<input type="checkbox"/>

Eighth Grade Fair (E) - Physics (1300)

Award		Project	Del Val
1st Place	E1301	<i>Aerodynamics In The Wheels</i> Homare Yamashita - Springhouse Middle School Sponsor - Daniel Christman	<input checked="" type="checkbox"/>
2nd Place	E1310	<i>Does The Architecture Of A Bridge Affect Its Strength?</i> Devanshi Patel - Springhouse Middle School Sponsor - Scott Bauer	<input type="checkbox"/>
3rd Place	E1303	<i>The Effect Of A Corked Bat On A Baseball's Distance</i> Ryan Stubbefield - Moravian Academy Middle School Sponsor - Joanne Daniels	<input type="checkbox"/>
Honorable Mention	E1304	<i>The Seebeck Effect In Thermoelectricity</i> Wisdom Ufondu - Moravian Academy Middle School Sponsor - Joanne Daniels	<input type="checkbox"/>

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Honorable Mention	E1311	<i>Organic vs. Non-Organic</i>	<input type="checkbox"/>
		Riya Patel - Springhouse Middle School	
		Sponsor - Susan Stern	
Honorable Mention	E1312	<i>How Does Salt/Sugar Affect The Density Of Water And Floatation Of The Egg And Buoyancy?</i>	<input type="checkbox"/>
		Ayyanselvendhren Sureshkumar - Springhouse Middle School	
		Sponsor - Susan Stern	
Honorable Mention	E1314	<i>Chladni Plates</i>	<input type="checkbox"/>
		Rachele Grigoli - Springhouse Middle School	
		Sponsor - Daniel Christman	

Eighth Grade Fair (E) - Zoology (1400)

Award		Project	Del Val
1st Place	E1401	<i>How Does The Incubation Of Spotted Lantern Fly Eggs Effect Them Hatching?</i>	<input checked="" type="checkbox"/>
		Jacquelyn Fekula - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
2nd Place	E1402	<i>The Effect Of Salt On The Hatch Rate Of Artemia</i>	<input type="checkbox"/>
		Shravan Ganta - Springhouse Middle School	
		Sponsor - Scott Bauer	

Eighth Grade Fair (E) - Team Projects (1500)

Award		Project	Del Val
1st Place	E1501	<i>No Yolk About It!</i>	<input checked="" type="checkbox"/>
		Vrindivanni Cannavino - Arts Academy Charter Middle School	
		Madeline Ashby - Arts Academy Charter Middle School	
		Sponsor - Carole Ondrovic	
2nd Place	E1506	<i>Sleep for Athletes</i>	<input type="checkbox"/>
		Grace Litzenberger - Arts Academy Charter Middle School	
		Celia Casey - Arts Academy Charter Middle School	
		Sponsor - Carole Ondrovic	
3rd Place	E1504	<i>Which Citrus Fruit Can Prevent Browning on Apple Slices the Longest?</i>	<input type="checkbox"/>
		Elizabeth Cordon - Arts Academy Charter Middle School	
		Susannah Gruver - Arts Academy Charter Middle School	
		Sponsor - Carole Ondrovic	
Honorable Mention	E1502	<i>Learn Behavior</i>	<input type="checkbox"/>
		Danyellys Hernandez - Arts Academy Charter Middle School	
		Madeline Cole - Arts Academy Charter Middle School	
		Sponsor - Carole Ondrovic	

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Seventh Grade Fair (F) - Behavior & Social Sciences (100)

Award		Project	Del Val
1st Place	F0103	<i>Music: Help or Distraction For Testing?</i> Kanchan Gupta - Moravian Academy Middle School Sponsor - Joanne Daniels	<input checked="" type="checkbox"/>
2nd Place	F0104	<i>Teenage Motivation</i> Silas Taylor - Arts Academy Charter Middle School Sponsor - Karen Miller	<input type="checkbox"/>

Seventh Grade Fair (F) - Biochemistry (200)

Award		Project	Del Val
1st Place	F0201	<i>Oil From Algae</i> Vidhi Desai - Springhouse Middle School Sponsor - Noel Mahmood	<input checked="" type="checkbox"/>
2nd Place	F0206	<i>Biofuels vs. Fossil Fuels</i> Akshay Sethi - Springhouse Middle School Sponsor - Troy Minarovic	<input type="checkbox"/>
3rd Place	F0205	<i>Can Your Plant Survive For More Than Five?</i> Mia Preston - Orefield Middle School Sponsor - Brian Holtzhafer	<input type="checkbox"/>
Honorable Mention	F0202	<i>What Effect Does Microwave Radiation Have On Plant Seeds?</i> Ananya Gope - Springhouse Middle School Sponsor - Troy Minarovic	<input type="checkbox"/>
Honorable Mention	F0207	<i>The Effect Of Temperature And Oxygen On Melanin Formation In Potatoes</i> Vivek Shepherd - Springhouse Middle School Sponsor - Jennifer Karetsky	<input type="checkbox"/>

Seventh Grade Fair (F) - Botany (300)

Award		Project	Del Val
1st Place	F0308	<i>How Much Water Should Plants Receive?</i> Mujtaba Jaffer - Springhouse Middle School Sponsor - Troy Minarovic	<input checked="" type="checkbox"/>
2nd Place	F0303	<i>Saving The Scraps</i> Grace Clewell - Springhouse Middle School Sponsor - Noel Mahmood	<input type="checkbox"/>

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3rd Place	F0310	<i>Do Household Chemicals Affect The Growth Of Plants?</i>	<input type="checkbox"/>
		Azra Mody - Springhouse Middle School	
		Sponsor - Troy Minarovic	
Honorable Mention	F0302	<i>The Effect OF Different Liquids On Lima Beans Germination</i>	<input type="checkbox"/>
		Danica Butch - Springhouse Middle School	
		Sponsor - Noel Mahmood	
Honorable Mention	F0307	<i>Booming Botany</i>	<input type="checkbox"/>
		Arianna Green - Arts Academy Charter Middle School	
		Sponsor - Karen Miller	

Seventh Grade Fair (F) - Chemistry (400)

Award		Project	Del Val
1st Place	F0415	<i>Water Purification Using Adsorption</i>	<input checked="" type="checkbox"/>
		Riya Verma - Springhouse Middle School	
		Sponsor - Noel Mahmood	
2nd Place	F0404	<i>Temperature's Effect On pH Of Liquids And Solutions</i>	<input type="checkbox"/>
		Yechan Cho - Springhouse Middle School	
		Sponsor - Jennifer Karetsky	
3rd Place	F0413	<i>Effect Of Solutes On Dissociation Abilities In Liquid Water</i>	<input type="checkbox"/>
		Sooraj Tharumia - Springhouse Middle School	
		Sponsor - Noel Mahmood	
Honorable Mention	F0406	<i>Cupcake Galore</i>	<input type="checkbox"/>
		Katriel Fretti - Springhouse Middle School	
		Sponsor - Noel Mahmood	
Honorable Mention	F0410	<i>Sealant Stats</i>	<input type="checkbox"/>
		Luke Platek - Springhouse Middle School	
		Sponsor - Troy Minarovic	
Honorable Mention	F0412	<i>The Tallest Muffin</i>	<input type="checkbox"/>
		Hailey Smith - Springhouse Middle School	
		Sponsor - Noel Mahmood	
Honorable Mention	F0416	<i>Lock It In</i>	<input type="checkbox"/>
		Elizabeth Williams - Springhouse Middle School	
		Sponsor - Noel Mahmood	

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Seventh Grade Fair (F) - Earth & Space Sciences (600)

Award		Project	Del Val
1st Place	F0602	<i>How Does The Angle Affect The Efficiency Of Photovoltaic Cells?</i> Shashwat Sharma - Springhouse Middle School Sponsor - Troy Minarovic	<input checked="" type="checkbox"/>

Seventh Grade Fair (F) - Engineering (700)

Award		Project	Del Val
1st Place	F0701	<i>Gear Up For Speed</i> Sebastian Malaver - Moravian Academy Middle School Sponsor - Joanne Daniels	<input checked="" type="checkbox"/>
2nd Place	F0704	<i>Suspension Bridge vs Beam Bridge</i> Paul Ganssle - St. Theresa School Sponsor - Constance Sisko	<input type="checkbox"/>
3rd Place	F0702	<i>Wave Energy</i> Ishika Thareja - Springhouse Middle School Sponsor - Troy Minarovic	<input type="checkbox"/>
Honorable Mention	F0705	<i>Bridges That Can Take A Shake</i> Claire Smith - St. Theresa School Sponsor - Constance Sisko	<input type="checkbox"/>
Honorable Mention	F0706	<i>What Does Amperage Do?</i> Rylee Eberhart - Arts Academy Charter Middle School Sponsor - Karen Miller	<input type="checkbox"/>

Seventh Grade Fair (F) - Environmental (800)

Award		Project	Del Val
1st Place	F0803	<i>Testing The Effect Of Various Chemicals On The Spotted Lantern Fly</i> Rayna Malhotra - Moravian Academy Middle School Sponsor - Joanne Daniels	<input checked="" type="checkbox"/>
2nd Place	F0804	<i>Compare The Effectiveness Of Homemade Cleaning Products With Commercial Chemical Cleaners</i> Eshaan Patel - Springhouse Middle School Sponsor - Jennifer Karetsky	<input type="checkbox"/>
3rd Place	F0802	<i>Does Temperature Of Water Affect Its pH?</i> Rujula Deshmukh - Springhouse Middle School Sponsor - Troy Minarovic	<input type="checkbox"/>

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Honorable Mention	F0801	<i>Which Soil Is Best For Plant Growth?</i>	<input type="checkbox"/>
		Brooklyn Vasquez - Springhouse Middle School	
		Sponsor - Jennifer Karetsky	

Seventh Grade Fair (F) - Mathematics (1000)

Award		Project	Del Val
1st Place	F1001	<i>The Josephus Problem</i>	<input checked="" type="checkbox"/>
		Pranavi Marella - Moravian Academy Middle School	
		Sponsor - Joanne Daniels	
2nd Place	F1002	<i>Pascal's Triangle</i>	<input type="checkbox"/>
		Aman Desai - Moravian Academy Middle School	
		Sponsor - Joanne Daniels	

Seventh Grade Fair (F) - Medicine & Health (1100)

Award		Project	Del Val
1st Place	F1101	<i>Will Squats Improve Your Vertical Jump?</i>	<input checked="" type="checkbox"/>
		Talia Zurinkas - Springhouse Middle School	
		Sponsor - Noel Mahmood	
2nd Place	F1103	<i>How Does Meditation Impact Our State Of Mind?</i>	<input type="checkbox"/>
		Dana Passerman - Arts Academy Charter Middle School	
		Sponsor - Karen Miller	

Seventh Grade Fair (F) - Physics (1300)

Award		Project	Del Val
1st Place	F1304	<i>"Wright" or Wrong: Are Two Wings Better Than One?</i>	<input checked="" type="checkbox"/>
		Jerrod Harris - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
2nd Place	F1306	<i>The Effect Of Gravity On Drying Suspension Droplets</i>	<input type="checkbox"/>
		Thomas Gilchrist - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
3rd Place	F1313	<i>Cello Bridge Material On Timbre</i>	<input type="checkbox"/>
		Brynn Suhocki - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
Honorable Mention	F1305	<i>Wind Power</i>	<input type="checkbox"/>
		Nikhil Girotra - Orefield Middle School	
		Sponsor - Brian Holtzhafer	

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Honorable Mention	F1308	<i>How Does The Voltage Of A Battery Affect The Magnetic Force When Creating Your Own Electricity?</i>	<input type="checkbox"/>
		Sunny Chen - Springhouse Middle School	
		Sponsor - Noel Mahmood	
Honorable Mention	F1310	<i>How Can You Most Efficiently Lift Up Water Using Capillary Action?</i>	<input type="checkbox"/>
		Eric Jin - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
Honorable Mention	F1311	<i>Effects Of Replicated Sunlight On Color Pigments</i>	<input type="checkbox"/>
		Emma Johnson - Orefield Middle School	
		Sponsor - Brian Holtzhafer	

Seventh Grade Fair (F) - Zoology (1400)

Award		Project	Del Val
1st Place	F1401	<i>The Effect Of Caffeine On The Regeneration Of Planaria</i>	<input checked="" type="checkbox"/>
		Sarah Pangare - Springhouse Middle School	
		Sponsor - Noel Mahmood	
2nd Place	F1405	<i>The Effects Of Electromagnetic Waves On Daphnia</i>	<input type="checkbox"/>
		Aarav Kakade - Springhouse Middle School	
		Sponsor - Troy Minarovic	
3rd Place	F1402	<i>Does Supplementing Laying Hens With Vitamin E Affect Egg Production?</i>	<input type="checkbox"/>
		Kelsey Gelb - Orefield Middle School	
		Sponsor - Brian Holtzhafer	
Honorable Mention	F1403	<i>The Pen vs. Bugs Does All Bugs Try To Past The Line? Why?</i>	<input type="checkbox"/>
		Malak Varshany - Arts Academy Charter Middle School	
		Sponsor - Karen Miller	
Honorable Mention	F1404	<i>Which Will A Dog Choosse First, Carrots, Cheese Or A Hot Dog?</i>	<input type="checkbox"/>
		Noah Helmuth - Springhouse Middle School	
		Sponsor - Noel Mahmood	