



2019 Student Projects

Senior Division

The Effect of *in ovo* Ascorbic Acid Submergence on Eggshell Conductance, Chick Body Mass and Initial Post-Hatch Growth Rate in Commercial Meat Chickens

Colin Detrick (Saratoga Springs)

Intercropping *Solanum tuberosum* and *Calendula officinalis* to Attract the *Coleomegilla maculata* as a Biological Control Method for *Leptinotarsa decemlineata* and *Macrosiphum euphorbiae* Populations

Jessica Petteys (Hudson Falls)

Environment or Beekeeping Management Practices: What affects survival rate in Honey Bee colonies with Varroa mite infestations?

Sena McLaughlin (Hudson Falls)

Effect of pH, Salinity, and the Alzheimer's-Associated Amyloid-Beta Protein on Memory Formation and Regenerative Abilities in Planaria

Abrielle Swartz (Hudson Falls)

Say Goodbye to Compression Garments: A Novel Design for a Lymphedema Flex-Tech Sneaker

Nguyen Tran, Chung Tran (South Colonie)

5 Cylinder Radial Engine

Austin Kwon, Garrett Drake, Eric Brunco (North Colonie)

Relationship between Math and Music

Michelle Moczulski (Bethlehem)

Comparing Hardware and Software Solutions of Brain-Computer Interfaces Using Tobii Dynavox Communicator 5

Vaishali Gupta (North Colonie)

Waves in Motion

Soroush Saririan, Alex Smith (Shenendehowa)

Brexit

Jasmine Edmonds, Rosalind Furan (South Colonie)

Untold Mysteries

Abeerah Akhtar (North Colonie)

A Big Problem from a Small Device: A Call for Vaping Education in Capital District Schools

Sunnah Yasin, Mariyam Moqbil (South Colonie)

Cultural Fantasy Shipping Container Studio

Hannah Wang, Marie Miller, Shantala Mehta, Chloe Baldwin (North Colonie)

Junior Division

The Void Above

Danil Donchuk (New York Mills)

Understanding ARVC's Present and Future

Sareena Gurung, Meghana Bhupati (Guilderland)

The Effect of Nitrogen in Free Range and Caged Chicken Manure on Plant Growth

Isaac Kwasniewski (Hudson Falls)

How Black Holes Affect Space Time

Victoria Iacabucci, Abby Beauregard, Lelaina Beauregard (Voorheesville)

Car Crash Analysis

William Makranszky (Tech Valley)

Building a Microscope

Nicholas Allen (Tech Valley)

Renaissance Revival

Mina Olsson, Ashlee Jensis, Cayden Hobart (Tech Valley)

Aquatic Mechatronics

Shane Thrasher (Tech Valley)

Beliefs Documentary

Cynthia "Haven" Cooper, Noah Grinder (Tech Valley)

Live from the Cold War

Simon VanKuren, Edwin VanWagner (Tech Valley)

Biology of the Middle Ages

Jack Whitaker, Tobey Condon (Tech Valley)