

2017 Student Projects *Senior Division*



Night Light Trainer

Ashley Abel, Nicole Mann, Phil Santulli (South Colonie)

Electric Vehicle Battery

Ryan Moon (South Colonie)

Not Just for Football: Linking Concussions to Firearm Use

Jonathan Sinopoli (Burnt Hills-Ballston Lake)

Dream Weaver: Understanding the Obscurity Within Dreams

Silma Subah (Guilderland)

Calculated Chaos: A Journey of Neurological Magnitude on a Miniscule Level

Febronia Mansour (Guilderland)

The Gradient Effect of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) Using the Biomarker *Elliptio complanata* in the Hoosic River

Kierra McCarthy (Hudson Falls)

The Abundance of Macroplastics and Microplastics in the Shoreline of Lake George, NY

Danielle Kitchner (Hudson Falls)

Morphic: The Language of Reality

Sagar Kumar (Guilderland)

Charles

Emily Loparco (Guilderland)

The Personalization of Medicine: How Nanotechnology Can & Should Be Embraced

Priyan Panthirana (Guilderland)

Residential Fire Escape Ladder

Meixin Liang, Tiffany Hernandez (South Colonie)

Expanding Education

Ahsanullah Sehat (South Colonie)

myAAC: A Case for Nonverbal Students

Adam Blanchard, Alayna Colbert, Brian Doran (South Colonie)

The Calm & The Storm: A Study of Color and Perception

Julia Liu (Guilderland)

Medical Shoe for Mobility-Impaired

Victoria Servetas, Jarrod Coletta, Nick Bearup, Jordan Hoffay (South Colonie)

Hydrogen & Oxygen: Water & Explosives

Krish Patel (South Colonie)

Anatomy Exploration through Art, Science, and Technology

Tieraney Bassett, Madeline Ames, Matthew Duax, Lily Jenkins (North Colonie)

A Study on the Spread of Scientific Misinformation Online

Thomas Rennells, Joshua Rennells, Emily Rennells (South Colonie)

Europa Explorer

Crystal Chonou (South Colonie)

FRC Team 5881 Fuel Shooter

Ian Jensen, Ben Tacy (Tech Valley)

Science of Cupcakes

Olivia Otero (Tech Valley)

Dolor Aeternam Demo

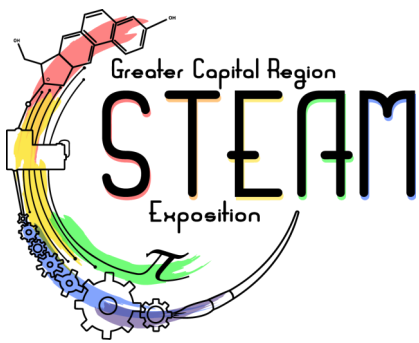
David Kiefer, Robert Scott (Tech Valley)

Mechanical Mirroring

Kiam Kaiser, Nick Miller, Axton Pulliam, Seiji Akera (Tech Valley)

VEX Robotics

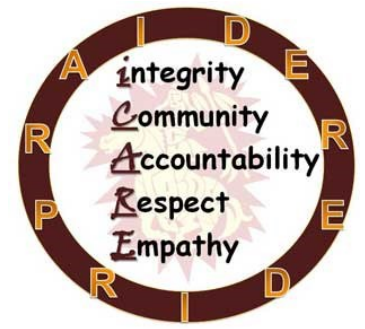
Stephen Wells (Tech Valley)



2017

Student Projects

Junior Division



A Home Spectrometric Device for Managing Heart Disease

Aryia Dattamajumdar (Niskayuna)

Catapult Art

Brianna Smith, Hannah Flynn (South Colonie)

Life-Saving Drown Prevention Invention

Marisa Heinze (South Colonie)

The Building Blocks of Art

Isabella Stone, Gabrielle Coello (South Colonie)

Magnetic Bearing Theory

Connor Butler (South Colonie)

Why doesn't the ocean contaminate the river?

Cami Tran, Nina Tran (South Colonie)

How can you hold fire?

Mahmoud Abdelslam (South Colonie)

DNA Model of Mutations

Maggie Steele, Francesca Agostino (South Colonie)

Combat Helmets

Sean Collingbourne (Tech Valley)

Household Materials Microscope

Mary Rose Duffy, Montanna Higgins (Tech Valley)

Earth Odyssey

Macy Hayes, Brooklyn Darling, Purevsuren Batdorj (Tech Valley)

Oxyhydrogen Generator

Maxwell Lockett (Tech Valley)

Nanomedicine Project: Hydrogel Drug Delivery

Jennifer Ljutich, Jennifer Keller (Tech Valley)

Cry America Books for Education

Nusrat Begum (Tech Valley)