Proud to present
**Dorothy Hamm Middle School
Science Fair Finalists
Jan. 25-27, 2022**

Nathan Bastuscheck Grade 8 Effect of Distraction on Response Time	**Kellan Dick Grade 8** Decoding the EEG with Machine Learning	**Elisha Gooden Grade 8** Resonant Response: The effect of string played on amount of time the other strings vibrate
Erin Jacob *and* Noa Kammerman Grade 7 Which worm makes the best composting soil using Arlington soil?	**Nadia Lach Hab Grade 8** Effect of Amount of Microplastics on Survival Rate of Daphnia magna	**Sebastian Monroy Grade 8** Effect of Nerf Gun Shooting Angle on Dart Distance
Abbie Scally Grade 8 Effect of Deicer Ingredients on Amount of Time it Takes for Ice to Melt	**Caroline South, Grade 8** Effect of Over-the-Counter Medicine Coating on the Release Time of the Medicine in a low pH Environment (Stomach)	**Kaleb Taddesse Grade 8** Digging Deep: Does the diet of an earthworm affect the enrichment of the soil?

Participants and Research Projects

Semiru Abraham, Grade 8
Effect of Temperature on Cohesion of Water

Nathan Bastuscheck, Grade 8
Effect of Distraction on Response Time

Anna Brodsky, Grade 8
Effect of Water Location on Contaminants found in the Water

Madeline Bushardt, Grade 7
Yeast Reproduction in Sweeteners

Matteo Caruso, Grade 7
How Salty for it to Float?

Max Chappell, Grade 8
Hot Drones: How does changing the temperature affect drone speed?

Vedica Chudiwale, Grade 8
Effect of the Amount of Nutrients added on the Height of the Plant

Henry DeNola, Grade 8
Effect of Frequency on Muscle Movement

Kellan Dick
Decoding the EEG with Machine Learning: What is the correlation between EEG and Pattern Recognition Ability

Sarah Freeman and Aanya Goel, Grade 7
Seismic Architecture: Earthquake Safety Architecture Project

Elisha Gooden
Resonant Response: Effect of String Played on Amount of Time the other Strings Vibrate

Matt Grundman, Grade 7
Strawberry DNA Extraction

Katie Hardwick, Grade 8
Relationship between Animal Species and C-Value

Mary Hardwick, Grade 8
Effect of Type of Chemical on Solubility

Jasmin Hazari, Grade 7
Impact of Oceanic pH on Coral Reef

Noah Hessling, Grade 8
Effect of Router Blocking on WiFi Signal Speed

Erin Jacob and Noa Kammerman, Grade 7
Which worm makes the best composting soil using Arlington soil?

Nadia Lach Hab, Grade 8
Effect of Amount of Microplastics on Survival Rate of *Daphnia magna*

Vivian Lee, Grade 7
Effect of amount of sea water on water salinity

Sebastian Monroy, Grade 8
Effect of Nerf Gun Shooting Angle on Dart Distance

Esperanza Piechowski, Grade 8
Will your morning Joe help your plants grow?
Effect of Coffee Concentration on Plant Growth

Abbie Scally, Grade 8
Effect of Deicer Ingredients on AMount of Time it Takes for Ice to Melt

Angelo Fox-Shin, Grade 7
Comparing the effectiveness of soap and hand sanitizer

Elliana Snyder, Grade 8
Measuring the Circumference of the Earth using a Yardstick

Caroline South, Grade 8
Effect of Over-the-Counter Medicine Coating on the Release Time of the Medicine in a Low pH Environment (Stomach)

Devesh Stansbury, Grade 8
Learning Hungry: How do Food Insecurity Rates affect High School Graduation Rates Before and During the Pandemic?

Kaleb Taddesse, Grade 8
Digging Deep: Does the diet of an earthworm affect the enrichment of the soil?

Rosalind Van Reken, Grade 8
Effect of Meal Acquisition on Carbon Footprint: How the way you get your meal affects your CO_2 emissions