



# Conn. Science & Engineering Fair

## Quinnipiac University

March 8 - 20, 2021

### ISEF Winners

#### CSEF Physical Sciences

Autumn Kim  
Greenwich High School  
Greenwich  
*Design of a MFe<sub>2</sub>O<sub>4</sub>/Bentonite/Graphite Coated Polyurethane Sponge for Economical and Eco-Friendly Oil Spill Recovery*

#### CSEF Physical Sciences

Timothy Drinkall  
Greenwich High School  
Greenwich  
*Increasing Aerofoil Lift via Artificial Amplification of the Coanda Effect using Heat*

#### CSEF Life Sciences

Hannah Goldenberg  
Greenwich High School  
Greenwich  
*Linking Continued Exposure to E-cigarette Vapor Constituents with Chronic Obstructive Pulmonary Disease*

#### CSEF Life Sciences

Sean Lee  
The Loomis Chaffee School  
Windsor  
*Probing Wolbachia Genomes with Machine Learning Algorithms*

#### Alexion Biotechnology

Ambika Grover  
Greenwich High School  
Greenwich  
*Rapid, Noninvasive, Fluorescence-Based Detection for Elevated Levels of Nitric Oxide in Exhaled Breath, As a Marker for Hazardous PM<sub>2.5</sub> Exposure*

#### Urban School Challenge

Clayton Nyiri  
Bridgeport Regional Aquaculture Center  
Bridgeport  
*The Social Interactions and Learning Abilities Between Dogfish, Observed Using Two Different Methods of Target Training.*

#### Engineering

Halla Clausi  
Greenwich High School  
Greenwich  
*Colorimetric Smartphone-Based Detection of Salivary SOD2 on Photonic Opal Structures for the Rapid Diagnosis of Hepatocellular Carcinoma*