



# Conn. Science & Engineering Fair

## Quinnipiac University

March 8 - 20, 2021

### Top Category Winners

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#### High School Physical Sciences Team

Myles Spiess Brunswick School Greenwich  
Nicholas Altman

*Recirculating Shower Filtration System: Utilizing Natural, Cost-Efficient, and Effective Materials to Consolidate The Purification of Water*

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#### High School 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*

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#### 8th Grade Physical Sciences

Snigtha Mohanraj Engineering & Science University Magnet New Haven

*Implementation of Metal-Oxide-Induced Agglomeration and Electromagnetic Filtration for Removal of Microplastics*

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#### 7th Grade Physical Sciences

Sia Reddy Talcott Mountain Academy Avon

*Tennis Ball Disinfector*

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#### Middle School (Grades 7 & 8) Physical Sciences Team

Lincoln Marshaus Chiaravalle Academy Enfield

Chloe Walker

Francesca Lamattina

*Toilet Power: Capturing Wasted Energy From Home Fixtures*

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#### High School Life Sciences Team

Sheehan Munim CT-STEM Redding

Allen Liu

*Development of a WatchOS Application that uses HRV and Vibrational Pulses to Reduce Stress*

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#### High School Life Sciences

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*

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#### 8th Grade Life Sciences

Zara Haque Eastern Middle School Riverside

*Can trust kill? Covid-19 and Social Capital*

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