



CSEF Awards Received ISEF 2019

ISEF Category: Energy: Physical (EGPH008)

**- A Green Nanotechnological Approach for Energy Efficiency and Conservation:
Tungsten-Doped Vanadium Dioxide Thermochromic Smart Windows**

Cynthia Chen, 17, Junior, Greenwich High School, Greenwich, CT

ISEF Grand Awards:

Energy Physical	Fourth Award of \$500
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ISEF Category: Animal Sciences (ANIM030)

**- Control of *Varroa destructor* Infestation with a Dual-Function, Thymol-Emitting
Honey Bee Hive Entranceway**

Raina Jain, 16, Junior, Greenwich High School, Greenwich, CT

ISEF Special Awards:

Patent and Trademark Office Society	Top Award of \$1,000 , an American flag and a framed copy of the first patent granted in the USA.
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ISEF Grand Awards:

Animal Sciences	Second Award of \$1,500
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ISEF Category: Biochemistry (BCHM014)

**- Deuterium Oxide (D₂O) on Maintaining Viability in Coliphage Bacteriophages
under Low Temperatures to Model Live Attenuated Viral Vaccine Additives**

Annika Morgan, 18, Senior, Joel Barlow High School, Redding, CT

ISEF Grand Awards:

Biochemistry	Best of Category Award of \$5,000. Additional \$1,000 grant given to each winner's school and to the affiliated fair represented. First Award of \$3,000
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ISEF Category: Energy: Physical (EGPH012T)

**- Optimization of High-Efficiency Organic-Inorganic Lead Halide Perovskite Solar
Cells via a Novel Polycaprolactone Additive Pathway**

Sirina Verma Prasad, 17, Senior, **Anisa Verma Prasad**, 17, Senior, Staples High School, Westport, CT

ISEF Special Awards:

Air Force Research Laboratory on behalf of the United States Air Force	First Award of \$750
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ISEF Grand Awards:

Energy: Physical	Third Award of \$1,000
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ISEF Category: Materials Science (MATS037T)

- Development of *in-situ* Fabrication Techniques of Martian Construction Material
Cristian Alexen Rodriguez, 18, Senior, **Srikar Reddy Godilla**, 17, Senior,
CREC Academy of Aerospace and Engineering, Windsor, CT

ISEF Grand Awards:

Materials Science

Fourth Award of \$500

ISEF Category: Biomedical Engineering (ENBM030)

- Rapid, Smartphone-Based Diagnosis of Skin Melanoma through Differences in Tumor Cell Thermal Regulation Combined with Diffuse Spectroscopic Analysis
Melissa Woo, 16, Junior, Greenwich High School, Greenwich, CT

ISEF Special Awards:

IEEE Foundation

Second Place Award of \$600

ISEF Grand Awards:

Biomedical Engineering

Third Award of \$1,000