

63rd Greater New Orleans Science & Engineering Fair, February 18-21, 2019
John Curtis Christian SENIOR DIVISION Regional Winners

Senior Division CATEGORY Awards:

1st place: *advances to state science fair at LSU March 18 -20, 2019.* (\$75 + a medal).

- **Meghan Howard**, category: Biochemistry, title: Whitening Methods of Stain Removal on Teeth.
- **Robbie Pizzolato**, category: Computational Biology & Biomedical Engineering, title: A Novel Helmet Study Partnering Energy Absorbing Viscoelastic Polymers and Kevlar Fibers in an Attempt to Reduce Impact Force and Trauma to the Human Brain: Year II.
- **Isabella Pita**, category: Earth & Environmental, title: Agricultural Street Canal Landfill: Evaluating Lead, Arsenic and Other Potential Carcinogens in the Agricultural Street Landfill.
- **Rachel Pizzolato**, category: Energy-Physical, title: Year IV-Exploring the Effect of Vortex Generators on Boundary Layer Separation & Laminar Flow in a Venturi & Determining the Potential Improvement on Efficiency of Vertical Axis Wind (VAWT).
- **Grayson Barron**, category: Engineering: Mechanical & Civil, title: Simple Problem, Simple Solution. Designing a Backpack Desk.
- **Cole Landry**, category: Microbiology, title: 5-Second Rule.
- **James Ormond**, category: Physics & Astronomy, title: Neptune's Revenge.
- **Colton Kendrick & Justin Unger**, category: Plants, title: Living in Outer Space: How do Reduced Oxygen Levels Affect Primitive Plants (Bromeliads) and Simple Invertebrates?

2nd place: *advances to state science fair at LSU March 18 -20, 2019.* (\$50 + a medal).

- **Madelynn Massicot**, category: Biochemistry, title: How Much Energy is Stored in Different Foods?
- **Kylie Simon**, category: Computational Biology & Biomedical Engineering, title: Artificial Pancreas.
- **Darbie Tullier**, category: Earth & Environmental, title: Will Location Affect the Amount of Particulate Pollution?
- **Sydney Parfait**, category: Energy-Chemical, title: Temperature and Light Intensity: Using a Phone App to Measure Intensity.
- **Cade Windstein**, category: Energy-Physical, title: Propelling for Energy-Blade Types and Shape.
- **Preston Guedry**, category: Embedded Systems, title: Think Before You Post – Password Security and Social Media.
- **Collin Guggenheim**, category: Mathematics, title: Will the Sum of "18" Occur More Often with 5-sided Dice or 10-sided Dice?

3rd place Category Awards: *alternate for state science fair at LSU March 18 -20, 2019.* (\$25 + a medal).

- **Milaya Ruffin**, category: Embedded Systems, title: Bringing Technology to the Basketball Court: Measuring Release Angle of a Basketball Using an App.
- **Austin McCreedy**, category: Mathematics, title: Does Altitude Affect Batting Statistics?
- **Madaline Fortmayer**, category: Materials Science, title: Analysis of Corrosion in an Industrial Setting: Bleach, Soap, Water, or Fabric Softener.
- **Willow Nelson**, category: Microbiology, title: Yeast Fermentation.
- **Madison Valenti**, category: Physics & Astronomy, title: Transformer Magnetism, Temperature & Efficiency.

4th place Category Awards: (\$15).

- **Madison Graf**, Behavioral, title: Congruent vs. Non-Congruent – Does it Affect Memory Recall?
- **Jolie Matherne**, category: Chemistry, title: Year II: How Does Polarity Affect Rf Movement in Paper Chromatography.
- **Remi Hebert**, category: Chemistry, title: Liquid or Powder: Which Removes Blueberry Stains the Best?
- **Collin Lewis**, category: Energy-Chemical, title: Which Battery Brand Will Last the Longest?
- **Ryan Adkins**, category: Energy-Chemical, title: Is Recycled Cooking Oil an Alternative?
- **Reggie Bergeron**, category: Energy Physical, title: How Do Different Surfaces Affect Dribbling?
- **Ryan Burns**, category: Materials Science, title: Does Adding NaHCO₃ to Latex Paint Make it More Fire Resistance?
- **Tyler Dunn**, category: Physics & Astronomy, title: Photometric Study & Processes that Occur in Certain Astronomical Bodies.

Special Awards for the Senior Division

Grayson Barron –

- **GNOSEF Grand Award winner - \$1000 scholarship; all expense-paid trip to compete at the Intel International Science and Engineering Fair, May 12 – May 17, 2019, in Phoenix Arizona; this is the world's largest international pre-college science competition.**

Rachel Pizzolato –

- 1st place American Institute of Aeronautics & Astronautics, certificate + \$100
- 1st place Association for Women Geoscientists Foundation, certificate.
- 1st place Outstanding Senior Division Project – Electrical Engineering from M.S. Benbow & Associates, certificate + \$100
- Overall Social Media Award winner: Amazon Echo Dot

Isabella Pita –

- Genius Olympiad Global Environmental International High School Project Fair in Oswego, NY June 17-22nd, 2019
- 1st place from Women for a Better LA, certificate + \$100
- 1st place from the New Orleans Geological Society, invitation to NOGS luncheon + \$100.
- 2nd place New Orleans MENSA special award, certificate + \$50
- Tulane School of Science & Engineering Summer Scholar alternate to attend a summer college course at Tulane + Tulane bag and supplies.

Madalin Fortmayer -

- 1st place from the American Welding Society, certificate + \$150
- 1st place for the NACE “Lavigne Karl Gatzke Senior High Corrosion Award”, certificate, \$200, and luncheon on 6/24/19.
- 1st place Naval Science award, certificate + \$50.
- Social media award and clip-on phone lenses.

Cade Windstein –

- 1st place American Meteorological Society, certificate.
- 1st place Yale Science & Engineering Association, Inc., certificate.

Tyler Dunn –

- 1st place from the Pontchartrain Astronomy Society, certificate + an Orion Observer 80st 80 mm telescope
- 1st place from the Metric Association, certificate + \$75
- 2nd place from the New Orleans Geological Society, certificate + \$15

Collin Guggenheim –

- 1st American Society of Naval Engineers, medal and invitation to participate in a summer internship.
- 1st place from Mu Alpha Theta National Math Honors Society, certificate.

Zach LaBarre

- ASM International Foundation Award – 1st place Most Outstanding Exhibit in Materials Science, certificate and an all-expense paid trip to the ASM Science Camp in Ohio (summer 2019), recognition at the annual NACE ASM luncheon at UNO.
- 1st place MENSA (the High IQ Society New Orleans Chapter), certificate + \$100.

Austin McCreedy

- 2nd place from Mu Alpha Theta National Math Honors Society, certificate.

Milaya Ruffin

- 1st place from the Biophysical Society, certificate + \$100.

Jolie Matherne

- 1st place from the Stockholm Junior Water Prize, invitation to compete in state competition.

Jamie Wingerter

- 2nd place from the Structural Engineering Institute of the American Society of Civil Engineers N.O. Branch, certificate + \$75.

Gretchen Schultz

- 1st place from the U.S. Department of Agriculture Research Service, a plaque and a visit to the research facility.

Haley Bono

- 1st place from the Women for a Better Louisiana for outstanding project, certificate + \$100.

Preston Guedry

- 1st place from the Regeneron Science Talent Search (National).

Meghan Howard

- 1st place from the Regeneron Science Talent Search (National).

Jude Tullier

- 2nd place for the “Lavigne Karl Gatzke Senior High Corrosion Award”, certificate, \$100, and luncheon on 6/24/19.

Madison Valenti

- 1st place from the Office of Naval Research, medal + certificate.

Teacher, Cathy Boucvalt

- James de la Houssaye Mentor Award, certificate + \$1000.
- NACE teacher award for 1st & 2nd place student winners, \$300.
- M.S. Benbow & Associates teacher award, \$100.
- Structural Engineering Institute of the American Society of Civil Engineers NO Branch, \$50.

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Junior Division CATEGORY Awards:

1st place: *advances to state science fair at LSU March 18 -20, 2019.* (\$50 + a medal).

- **Gregory Taravella**, category: Chemistry, title: Which Substance Helps Prevent Corrosion the Best?
- **Benjamin Taravella**, category: Medicine, Health & Microbiology, title: Bacterial Busters: Which Type of Cleaner Yields the Greatest Reduction of E. coli?
- **Patricia Peters**, category: Behavioral & Social Sciences, title: How does the Color and Temperature of Artificial Light Affect Visual Perception of a Space?

2nd place: *advances to state science fair at LSU March 18 -20, 2019.* (\$30 + a medal).

- **Madison Verbest**, category: Earth & Environmental, title: Slippery Slope.
- **Taylor Peaden**, category: Biochemistry, title: Which Moisturizer Best Keeps the Skin Hydrated?
- **Aurelia Austin**, category: Engineering Environmental, title: Making a Waterproof Case that will Protect the Electric Soil Moisture Sensor.
- **Kylie Walsdorf**, category: Engineering Mechanical, Civil & Transportation, title: Do Submarines Need Fins?

3rd place: Alternate for *state science fair at LSU March 18 -20, 2019.* (\$15 + a medal).

- **Keith Chiro**, category: Physics & Astronomy, title: Does Drag Affect the Distance a Paper Airplane Travels?
- **Michael Sam-Pang**, category: Plant Sciences, title: Can CBD Oil + Electrical Stimulation Produce Faster Seed Growth?

4th place: (\$10 + certificate).

- **Gabe Whittington**, category: Animal Sciences, title: Does Color Have an Effect on Insects—Which Color Should I Paint my Porch?
- **Derek Dungan**, category: Biochemistry, title: Will Enzyme Activity Increase or Decrease with the Amount of Pectin in an Apple?
- **Miley Percle**, category: Engineering Environmental, title: Which Sorbent Works the Best for Cleaning Up Oil Spills?
- **Kylen Strider**, category: Engineering Electrical, title: How Does the Resistance of a Pencil Affect the Brightness of a Lightbulb?
- **Joseph Fagin**, category: Physics, title: How Much Force Does it Take to Drive a Nail Through Different Types of Wood?

Special Awards for the Junior Division

Broadcom Masters 1st place and invitation to enter the national competition held in Washington D.C.: **Patricia Peters; Taylor Peaden; Gregory Taravella; Madison Verbest; Aurelia Austin; Kylie Walsdorf; Benjamin Taravella;**

Kylie Walsdorf

- **GNOSEF Junior Division Grand Award Winner, \$50 + plaque.**
- 1st place American Institute of Aeronautics & Astronautics, certificate +\$50.
- 1st place Office of Naval Research, certificate.

Patricia Peters

- 1st place from the American Psychological Association, certificate.
- 1st place from the MENSA (The High IQ Society) N.O. Chapter, \$100.

Gregory Taravella

- 1st place from the Dorothy Van Lue Habeeb Scholarship, certificate + \$50.
- 1st from the American Welding Society, certificate + \$100.
- 2nd place from the New Orleans Section of NACE International, certificate + \$100.

Benjamin Taravella

- 1st place from the Society for Industrial Microbiology & Biotechnology, certificate + \$75.
- 1st place from the Albert F.W. Habeeb MD Scholarship, certificate + \$50.

Madison Verbest

- 2nd place from the Society of American Military Engineers (SAME), certificate + \$75.
- 3rd place from the New Orleans Geological Society, certificate + \$50.

Michael Sam-Pang

- 1st place from the U.S. Department of Agriculture Research Service, certificate and invitation for a personal tour of the center.

Miley Percle

- 1st place from the Society of Petroleum Engineers, Inc. certificate + 125.

Teacher, Kathy Bush: Teacher Award from the Society of Petroleum Engineers Inc., Delta Chapter, \$75. **Teacher, Cathy Boucvalt:** 2019 Teacher Mentor Award, \$250. NACE International Junior Division Teacher Award, \$100.