

2020 SENIOR DIVISION GRAND AWARD WINNERS

Four Grand Award Winners in the senior division are selected from 1st and 2nd place winners in each category and represent Region 9 in the International Science and Engineering Fair (ISEF). Transportation and living expenses are provided for them and for 2 teachers selected by the Grand Award Judging Panel. Each Grand Award Winner receives a plaque from Region IX. Additionally, the four grand award winners in the senior division receive a \$1,000 scholarship from the Patrick F. Taylor Foundation upon presentation of an acceptance letter into a college of their choice.

Grayson Barron	John Curtis Christian
Collin Guggenheim	John Curtis Christian
Kaitlyn Perkins	Sci High
Ricki Pierce	Patrick F. Taylor Science & Technology Academy

The 2 teachers selected by the Grand Award Judging Panel to attend ISEF are:

Cathy Boucvalt	John Curtis Christian
Dr. Sam Loftus	Sci High

2020 SENIOR DIVISION CATEGORY AWARD WINNERS

Place	Category	FirstName	LastName	School	ProjectTitle
1	Animal Sciences	Tamera	Blackstone	Sci High	Anthropogenic Disturbance VS. Natural Disturbance Effects on an Important Bioindicator Species
1	Animal Sciences	Tia	Blackstone	Sci High	Anthropogenic Disturbance VS. Natural Disturbance Effects on an Important Bioindicator Species
1	Behavioral and Social Sciences	Paeon	Luby	Benjamin Franklin High School	Individuation and Empathy: A Mixed Methods Study of Twin Adolescents
1	Biochemistry, Cellular and Molecular Biology	Reggie	Bergeron	John Curtis Christian	What is the Best Way to Remove Coffee Stains From Teeth?
1	Biomedical, Health and Translational Medical Sciences	Rachel	Pizzolato	John Curtis Christian	Helmet Specific Position Technology to Reduce CTE/Brain Injury.

1	Chemistry	Allison	Lopez	John Curtis Christian	Color Conundrum
1	Computational Biology, Bioinformatics, and Biomedical Engineering	Jaudai	Vappie	Sci High	The Vappie Produce Index
1	Earth and Environmental Sciences	Tianna	Antoine	Sci High	The Effect of Artificial Light on Bat Foraging Habits
1	Earth and Environmental Sciences	Ronan	Moran	Sci High	The Effect of Artificial Light on Bat Foraging Habits
1	Embedded Systems, Robotics and Intelligent Machines	Dylan	Bracey	Jesuit High School	The Car Temperature Safety System
1	Embedded Systems, Robotics and Intelligent Machines	Brett	Steele	Jesuit High School	The Car Temperature Safety System
1	Energy: Chemical	John Walter	Whiticar	Edna Karr High School	The Effect of Different Solutions on the Mass of Rubber
1	Energy: Physical	Jeremiah	Hodge	John Curtis Christian	Does UV Index Affect Solar Car Velocity?
1	Engineering Mechanics	Grayson	Barron	John Curtis Christian	Built to Last, Built to Serve, Built to Protect!
1	Environmental Engineering	Ashlynn	Barrett	John Curtis Christian	Can Morning Glory Ornamentals be Used for Phytoremediation of Lead?
1	Environmental Engineering	Darbie	Tullier	John Curtis Christian	Can Morning Glory Ornamentals be Used for Phytoremediation of Lead?
1	Materials Science	Crystal	Lockett	Benjamin Franklin High School	Creating Edible Biodegradable Plastics and Paper Replacements
1	Mathematics and System Software	Collin	Guggenheim	John Curtis Christian	Which Monopoly Property Space is the Most Profitable Based on Probability?
1	Microbiology	Ari	Friend	Isidore Newman School	Analysis of Hand Sanitizers in Reducing Bacterial Growth
1	Microbiology	Ben	Patron	Isidore Newman School	Analysis of Hand Sanitizers in Reducing Bacterial Growth
1	Physics and Astronomy	Michael	Zengel	Benjamin Franklin High School	Variance of the Angle of Incidence in the Double Slit Experiment
1	Plant Sciences	Michael	Sam-Pang	John Curtis Christian	Can Electrical Stimulation & Hydroponics Increase Plant Growth?

2	Animal Sciences	Remi	Hebert	John Curtis Christian	Will Transcutaneous Electrical Nerve Stimulation Help Improve Regeneration Rates in Planarian?
2	Behaviorial and Social Sciences	Ricki	Pierce	Patrick F. Taylor Science & Technology Academy	Effect of Aromatherapy on Basic Academic and Manual Skills
2	Biochemistry, Cellular and Molecular Biology	Jourdan	Stipe	John Curtis Christian	Ascorbic Acid: Fruits vs. Vegetables
2	Biomedical, Health and Translational Medical Sciences	Kaitlyn	Perkins	Sci High	Evaluation of Exosomal Influence on KiSS1 Protein Expression in MDA-MB-231 TNBC cells
2	Chemistry	Sophie	Daly	Isidore Newman School	Analysis of Tap Water in New Orleans
2	Computational Biology, Bioinformatics, and Biomedical Engineering	Mahalia	Flint	Sci High	BLAST into the Future
2	Earth and Environmental Sciences	David	Luongo	Isidore Newman School	Particulate Matter Pollution at RTA Bus Stops
2	Embedded Systems, Robotics and Intelligent Machines	Mekhi	Fulwiley	Sci High	Exo-Cep
2	Energy: Chemical	Gabe	Falgoust	Holy Cross School	Battles of the Batteries
2	Energy: Physical	Louis	Veillion	Holy Cross School	Color's effect on the transfer of energy
2	Engineering Mechanics	Alex	Giacona	Holy Cross School	Cluster Buster: What 3D printed shape cluster is best at resisting compression forces?
2	Environmental Engineering	Jeysi	Guillen	Sci High	Bioluminescent detector
2	Environmental Engineering	Omari	Timmerman	Sci High	Bioluminescent detector
2	Materials Science	Leyton	Gould	Holy Cross School	A Sticky Situation: testing wood glue brands
2	Mathematics and System Software	Megan	McCartney	John Curtis Christian	Does Birth Month Affect MLB Batting Averages?
2	Mathematics and System Software	Danielle	McCartney	John Curtis Christian	Does Birth Month Affect MLB Batting Averages?

2	Mathematics and System Software	Briana	Dalton	Sci High	When it Rains it Pours
2	Microbiology	Adelaide	Jackson	Isidore Newman School	Analysis of All-Natural Anti-Fungal Creams
2	Physics and Astronomy	Madelynn	Massicot	John Curtis Christian	Analysis Between Handheld vs. Homemade Spectrophotometer.
2	Plant Sciences	Darby	Lefort	John Curtis Christian	Creating a Facility for Farming on the Planet Mars - Can Plats Thrive in a Reduced Oxygen Environment?
3	Animal Sciences	Nithya	Ramcharan	Isidore Newman School	Wax Worms as a Solution to the Global Plastic Crisis
3	Animal Sciences	Javon	Ruffin	Isidore Newman School	Competition or Competitive Exclusion in Brown and Green Anoles
3	Behaviorial and Social Sciences	Sanjana	Subramaniam	Isidore Newman School	Are We Leaping Forward without Looking? Evidence from Traffic Violations in New Orleans around Daylight Saving Time Transitions
3	Biomedical, Health and Translational Medical Sciences	Zoe	Curtis	John Curtis Christian	Are "Organic" Vegetables Really Organic?
3	Biomedical, Health and Translational Medical Sciences	Michael	Curtis	John Curtis Christian	Are "Organic" Vegetables Really Organic?
3	Chemistry	Danielle	Taix	John Curtis Christian	Does the pH of Water Affect Ink Separation in Water-based Black Markers?
3	Computational Biology, Bioinformatics, and Biomedical Engineering	Kamri	Johnson	Sci High	The effect of Socioeconomic status on black maternal death rate
3	Earth and Environmental Sciences	Colton	Kendrick	John Curtis Christian	At What Rate Will Biodegradable Plastics Decompose in Compost Mixture When Compared to a Landfill Environment?
3	Earth and Environmental Sciences	Justin	Unger	John Curtis Christian	At What Rate Will Biodegradable Plastics Decompose in Compost Mixture When Compared to a Landfill Environment?

3	Embedded Systems, Robotics and Intelligent Machines	Zachary	diBenedetto	John Curtis Christian	How Strong is Your Password?
3	Energy: Physical	Cade	Windstein	John Curtis Christian	What is the Best Way to Build a Vertical Wind Turbine?
3	Engineering Mechanics	Vincent	Bourgeois	Holy Cross School	What's the Best Bang for your Buck? A comparison of shotgun shell brands
3	Environmental Engineering	Semaj	Willis	Sci High	Using Okra as Water Treatment Coagulant
3	Materials Science	Kipori	Woods	Sci High	Natural Compounds to Decrease Healing Time in Planaria
3	Microbiology	Ian	Doody	Holy Cross School	Keep your strawberries mold free.
3	Physics and Astronomy	Destiny	Harbor	Sci High	The Effect of Moon Phase on Bat Activity
3	Plant Sciences	Marcheyla	Willis	Edna Karr High School	The Effect of Hybrid Breeding on Clementines
3	Plant Sciences	Jolie	Matherne	John Curtis Christian	How Do Different Colors of Light Affect Growth & Chlorophyll in Dwarf Grey Sugar Pea Plants
4	Animal Sciences	Jade Renee'	Smith	Edna Karr High School	The Effect of Motor Oil on the Mass of <i>Litopenaeus setiferus</i>
4	Behavioral and Social Sciences	Madison	Graf	John Curtis Christian	Does Weather Have an Impact on the Mood of Local TV Personalities?
4	Behavioral and Social Sciences	Jon	LaBranch	Sci High	Twin Personalities
4	Biomedical, Health and Translational Medical Sciences	Ashton	Castro	Holy Cross School	Does loud music handicap directional skills?
4	Biomedical, Health and Translational Medical Sciences	Paul	Gomila	Holy Cross School	Does playing video games affect someone's reaction time?
4	Biomedical, Health and Translational Medical Sciences	Ethan	Ward	Holy Cross School	Does playing video games affect someone's reaction time?
4	Chemistry	Mai	Burrell	Isidore Newman School	Absorbance & Fluorescence

4	Earth and Environmental Sciences	Ayanna Marie	Irvin	Edna Karr High School	The Effect of the Opening of Bonnet Carew' Spillway on the Water Quality of North Shore and South Shore
4	Earth and Environmental Sciences	Turner	Crawford	Isidore Newman School	Analysis of Microplastics in Local Waterways
4	Earth and Environmental Sciences	Nick	Lovell	Isidore Newman School	Analysis of Microplastics in Local Waterways
4	Earth and Environmental Sciences	Mary Grace	Foster	Lusher Charter School	Fungal Growth in Relation to Volatile Compounds from Crude Oil
4	Earth and Environmental Sciences	Taylor	Quincy	Sci High	Will Climate Change affect Mosquito Larvae?
4	Earth and Environmental Sciences	Peyton	Madere	Holy Cross School	Efficiency of Minerals
4	Energy: Physical	Kayla	Goldsmith	Edna Karr High School	How Does Water Depth Affect Wave Velocity?
4	Energy: Physical	Aishelle	Harrison	Edna Karr High School	How Does Water Depth Affect Wave Velocity?
4	Energy: Physical	Kevin	Ferrer	Sci High	Capacitors
4	Engineering Mechanics	Nicholas	Ward	John Curtis Christian	Which Type of Bridge Design Will Hold the Most Mass?
4	Environmental Engineering	Kyler	Franklin	Sci High	Solar Powered Laser Cutter
4	Environmental Engineering	Emily	Kraus	Patrick F. Taylor Science & Technology Academy	To what extent is it possible to stop micro plastic pollution at its source - the washing machine?
4	Materials Science	Claudia	Ross	John Curtis Christian	Is Flame Retardant Pain More Effective than Enamel Paint at Reducing Fires?
4	Mathematics and System Software	Tyler	Carreras	John Curtis Christian	Home Field Advantage
4	Microbiology	Christian	Johnson	Isidore Newman School	Analysis of Acne Medicines in Reducing Bacterial Growth
4	Microbiology	Amber	Nguyen	Sci High	Effect of Hand Washing with water or soap on bacteria hands
4	Physics and Astronomy	Nicholas	Dalferes	John Curtis Christian	Does Temperature Affect the Lifespan of a Bubble?

4	Physics and Astronomy	Luke	Mayer	John Curtis Christian	Can Magnets Create Perpetual Motion?
4	Plant Sciences	Michael	Florent	Edna Karr High School	The Effect of Lemna minor on the Dissolved Oxygen of Water
4	Plant Sciences	Olivia	Miller	Isidore Newman School	Can Hydrogels Improve Plant Growth in Arid Climates?
4	Plant Sciences	Catalina	Graindorge-Alday	Isidore Newman School	Salinity, Nutrients, & Algal Blooms
4	Plant Sciences	Ross	Jacobson	Isidore Newman School	Salinity, Nutrients and Algal Blooms

2020 SENIOR DIVISION SPECIAL AWARDS BY GNOSEF SPONSORS

ASM International Foundation Award (all-expense-paid trip!)

In partnership with the New Orleans Section of NACE International, the American Society for Materials International Foundation will recognize the most outstanding 10th or 11th Grade High School exhibits in materials engineering science. First Place student winner is awarded a certificate, medallion, and all-expense-paid trip to a one-week materials camp in Ohio on July 12-17, 2020. 2nd place winner is recognized and is an alternate should the first place winner not be able to attend the materials camp.

2nd	Grayson Barron	John Curtis Christian
1st	Rachel Pizzolato	John Curtis Christian

PATRICK F TAYLOR SCHOOL AWARDS

These materials and/or field trip grants are presented to participating high schools which have a minimum of 10 projects competing in the senior division. These awards are given to recognize successful participation in the GNOSEF and are to be used to promote interest in upper level math and science courses.

Edna Karr High School

Holy Cross School

Isidore Newman High School

John Curtis Christian

Sci High (New Orleans Charter Math and Science High School)

Albert F.W. Habeeb M.D. Scholarship

A \$1,000 college scholarship recognizes an outstanding project focused on the Health Sciences. It is provided by Patty Habeeb Muehlemann in memory of her father Albert F.W. Habeeb M.D. The scholarship is presented upon receipt of an acceptance letter into a college of their choice.

Rachel Pizzolato

John Curtis Christian

Dorothy Van Lue Habeeb Award

A \$1,000 college scholarship recognizes an outstanding project focused on the study of Chemistry or the use of Chemistry as a tool in scientific inquiry or engineering design. It is provided by Patty Habeeb Muehlemann in memory of Dorothy Van Lue Habeeb, founding member of the Greater New Orleans Science Fair, Inc., The scholarship is presented upon receipt of an acceptance letter into a college of their choice.

Allison Lopez

John Curtis Christian

Entergy Corporation "Powering the Future" Scholarship Award

\$1,000 scholarship to be awarded to a female, high school senior with an outstanding, promising project, upon presentation of their acceptance letter into a college or university

Ricki Pierce

Patrick F. Taylor Science & Technology Academy

Tulane University School of Science and Engineering - Tulane Science Scholars Program (TSSP)

The TSSP with financial support from the Bruce J. Heim Foundation will give a certificate, a trophy made in the Tulane Makerspace, and a full scholarship worth \$1700 for a summer for-credit course to a 10th or 11th grade student who has an exceptional project in an area of science or engineering. The TSSP is a selective program for rising juniors or seniors who have exceptional talent in the sciences, engineering, and mathematics. The judging panel was so impressed with a second student's project that a runner-up will also receive another full scholarship worth \$1700.

2nd

Paeon Luby

Benjamin Franklin High School

1st

Jasmine Thomas

Sci High

The "Aspiring Researcher" Scholarship presented by the Emmy Noether Awards

Professor Edwin Ford Hunter III, president of the Joe W. and Dorothy Dorsett Brown Foundation is here to present the "Aspiring Researcher" Scholarship sponsored by the Foundation's 2020 Emmy Noether Awards. A \$2,500 undergraduate scholarship is awarded to a female high school student that demonstrates passion and promise for scientific research. The scholarship is presented upon receipt of an acceptance letter into a college of their choice. In addition, the GNOSEF would like thank the Joe W. and Dorothy Dorsett Brown Foundation for providing financial support to train science fair mentors and providing stipends for teacher professional development workshops.

Rachel Pizzolato

John Curtis Christian

Neuroscience/Machine Learnings Scholarship Award

The H. Britton Sanderford Neuroscience/Machine Learning Project Award recognizes excellent work in the field of neuroscience or machine learning. The winner will be presented with a \$2,000 college scholarship upon presentation of an acceptance letter into a college of their choice.

This year a team will EACH be presented with a \$1000 college scholarship.

1st

Dylan Bracey

Brett Steele

Jesuit High School

James de la Housaye Mentor Award

Sponsored by Mr. H. Britton Sanderford, this award recognizes a high school mentor for their educational and inspirational work with students pursuing STEM inquiry. Because Mr. Sanderford was so impressed with the number and quality of student nominations, he has chosen to provide a 1st Place (\$2,000), a 2nd Place (\$1,500) and two 3rd Place (\$750) awards.

1st

Cathy Boucvalt

John Curtis Christian

2nd

Amy Mallozzi

New Orleans Charter Math and Science High School

3rd

David Kern

Isidore Newman High School

3rd

Sheila Lumod

Edna Karr High School

Award Donor (GNOSEF Sponsor)	Category	Place	FirstName	LastName	School	ProjectTitle
American Petroleum Institute (API) Delta Chapter	Materials Science	2	Sylas	Mitchell	Sci High	Effects of different types of coolant on liquid cooled cpu thermal performance
American Petroleum Institute (API) Delta Chapter	Energy: Physical	1	Cade	Windstein	John Curtis Christian	What is the Best Way to Build a Vertical Wind Turbine?

American Welding Society - New Orleans Section	Biomedical, Health and Translational Medical Sciences	HM	Rachel	Pizzolato	John Curtis Christian	Helmet Specific Position Technology to Reduce CTE/Brain Injury.
American Welding Society - New Orleans Section	Engineering Mechanics	1	Grayson	Barron	John Curtis Christian	Built to Last, Built to Serve, Built to Protect!
Bruce J. Heim Foundation	Biomedical, Health and Translational Medical Sciences	1	Rachel	Pizzolato	John Curtis Christian	Helmet Specific Position Technology to Reduce CTE/Brain Injury.
New Orleans Section of NACE International	Chemistry	2	Gregory	Taravella	John Curtis Christian	Inhibitors and Anodes - which prevents corrosion of carbon steel in the Gulf of Mexico?
New Orleans Section of NACE International	Environmental Engineering	1	Madalin	Fortmayer	John Curtis Christian	Why Were the Steel Pilings Left Unpainted in the New Orleans Levees After Katrina?
Women for a Better Louisiana	Behavioral and Social Sciences	1	Paeon	Luby	Benjamin Franklin High School	Individuation and Empathy: A Mixed Methods Study of Twin Adolescents
Women for a Better Louisiana	Environmental Engineering	1	Emily	Kraus	Patrick F. Taylor Science & Technology Academy	To what extent is it possible to stop micro plastic pollution at its source - the washing machine?

2020 SENIOR DIVISION SPECIAL AWARDS

Award Donor	Category	Place	FirstName	LastName	School	ProjectTitle
American Chemical Society	Biochemistry, Cellular and Molecular Biology	2	Isabelle	Plaisance	Isidore Newman School	Analysis of Foods for GMOs
American Chemical Society	Chemistry	1	Mai	Burrel	Isidore Newman School	Absorbance & Fluorescence

American Institute of Aeronautics and Astronautics (AIAA) Greater New Orleans Section	Energy: Physical	3	Jeremiah	Hodge	John Curtis Christian	Does UV Index Affect Solar Car Velocity?
American Institute of Aeronautics and Astronautics (AIAA) Greater New Orleans Section	Mathematics and System Software	2	Collin	Guggenheim	John Curtis Christian	Which Monopoly Property Space is the Most Profitable Based on Probability?
American Institute of Aeronautics and Astronautics (AIAA) Greater New Orleans Section	Embedded Systems, Robotics and Intelligent Machines	1	Dylan	Bracey	Jesuit High School	The Car Temperature Safety System
American Institute of Aeronautics and Astronautics (AIAA) Greater New Orleans Section	Embedded Systems, Robotics and Intelligent Machines	1	Brett	Steele	Jesuit High School	The Car Temperature Safety System
American Institute of Chemical Engineers - New Orleans Section	Chemistry	1	Allison	Lopez	John Curtis Christian	Color Conundrum
American Meteorological Society (AMS)	Earth and Environmental Sciences	1	Ayanna Marie	Irvin	Edna Karr High School	The Effect of the Opening of Bonnet Carre' Spillway on the Water Quality of North Shore and South Shore
American Meteorological Society (AMS)	Energy: Physical	1	Cade	Windstein	John Curtis Christian	What is the Best Way to Build a Vertical Wind Turbine?
American Meteorological Society (AMS)	Environmental Engineering	1	Ashlynn	Barrett	John Curtis Christian	Can Morning Glory Ornamentals be Used for Phytoremediation of Lead?
American Meteorological Society (AMS)	Environmental Engineering	1	Darbie	Tullier	John Curtis Christian	Can Morning Glory Ornamentals be Used for Phytoremediation of Lead?

American Meteorological Society (AMS)	Environmental Engineering	1	Emily	Kraus	Patrick F. Taylor Science & Technology Academy	To what extent is it possible to stop micro plastic pollution at its source - the washing machine?
American Psychological Association	Behavioral and Social Sciences	1	Paeon	Luby	Benjamin Franklin High School	Individuation and Empathy: A Mixed Methods Study of Twin Adolescents
American Society of Naval Engineers (ASNE) - Central Gulf Coast Section	Physics and Astronomy	2	Madelynn	Massicot	John Curtis Christian	Analysis Between Handheld vs. Homemade Spectrophotometer.
American Society of Naval Engineers (ASNE) - Central Gulf Coast Section	Physics and Astronomy	1	Michael	Zengel	Benjamin Franklin High School	Variance of the Angle of Incidence in the Double Slit Experiment
Association for Women Geoscientists Foundation	Earth and Environmental Sciences	1	Ella	Aluise	Isidore Newman School	Testing the Theory of Island Biogeography in an Urban Environment
Biophysical Society Award	Engineering Mechanics	1	Grayson	Barron	John Curtis Christian	Built to Last, Built to Serve, Built to Protect!
GENIUS (Global Environmental Issues) Olympiad	Earth and Environmental Sciences	1	David	Luongo	Isidore Newman School	Particulate Matter Pollution at RTA Bus Stops
GENIUS (Global Environmental Issues) Olympiad	Environmental Engineering	1	Emily	Kraus	Patrick F. Taylor Science & Technology Academy	To what extent is it possible to stop micro plastic pollution at its source - the washing machine?
M. S. Benbow & Associates	Energy: Physical	2	Jeremiah	Hodge	John Curtis Christian	Does UV Index Affect Solar Car Velocity?
M. S. Benbow & Associates	Energy: Physical	1	Cade	Windstein	John Curtis Christian	What is the Best Way to Build a Vertical Wind Turbine?
MENSA - (The High IQ Society), N.O. Chapter	Embedded Systems, Robotics and Intelligent Machines	2	Dylan	Bracey	Jesuit High School	The Car Temperature Safety System

MENSA - (The High IQ Society), N.O. Chapter	Embedded Systems, Robotics and Intelligent Machines	2	Brett	Steele	Jesuit High School	The Car Temperature Safety System
MENSA - (The High IQ Society), N.O. Chapter	Chemistry	1	Allison	Lopez	John Curtis Christian	Color Conundrum
Mu Alpha Theta	Mathematics and System Software	1	Collin	Guggenheim	John Curtis Christian	Which Monopoly Property Space is the Most Profitable Based on Probability?
Mu Alpha Theta	Mathematics and System Software	1	Briana	Dalton	Sci High	When it Rains it Pours
NASA EARTH System Science Award	Earth and Environmental Sciences	1	David	Luongo	Isidore Newman School	Particulate Matter Pollution at RTA Bus Stops
National Oceanic and Atmospheric Administration (NOAA)	Environmental Engineering	1	Semaj	Willis	Sci High	Using Okra as Water Treatment Coagulant
New Orleans Geological Society	Earth and Environmental Sciences	3	Peyton	Madere	Holy Cross School	Efficiency of Minerals
New Orleans Geological Society	Environmental Engineering	2	Madalin	Fortmayer	John Curtis Christian	Why Were the Steel Pilings Left Unpainted in the New Orleans Levees After Katrina?
Office of Naval Research (U.S. Navy/U.S. Marine Corps)	Engineering Mechanics	1	Grayson	Barron	John Curtis Christian	Built to Last, Built to Serve, Built to Protect!
Office of Naval Research (U.S. Navy/U.S. Marine Corps)	Engineering Mechanics	1	Joshua	Atkins	Holy Cross School	What is the effect of different keel models on the stability of a boat navigating a water channel?
Office of Naval Research (U.S. Navy/U.S. Marine Corps)	Plant Sciences	1	Michael	Sam-Pang	John Curtis Christian	Can Electrical Stimulation & Hydroponics Increase Plant Growth?
Ricoh Americas Corporation	Energy: Physical	1	Cade	Windstein	John Curtis Christian	What is the Best Way to Build a Vertical Wind Turbine?

Ricoh Americas Corporation	Plant Sciences	1	Michael	Sam-Pang	John Curtis Christian	Can Electrical Stimulation & Hydroponics Increase Plant Growth?
Society for In Vitro Biology	Animal Sciences	1	Derrick	O'Neal	Sci High	Mosquitoes are BASIC
Society for In Vitro Biology	Biomedical, Health and Translational Medical Sciences	1	Michael	Curtis	John Curtis Christian	Are "Organic" Vegetables Really Organic?
Society for In Vitro Biology	Biomedical, Health and Translational Medical Sciences	1	Zoe	Curtis	John Curtis Christian	Are "Organic" Vegetables Really Organic?
Society for Industrial Microbiology and Biotechnology	Earth and Environmental Sciences	1	Mary Grace	Foster	Lusher Charter School	Fungal Growth in Relation to Volatile Compounds from Crude Oil
Society of American Military Engineers (SAME)	Environmental Engineering	2	Damia	Franklin	Edna Karr High School	The Structural Systems of Wood as Mini-Floodgate to Minimize Flooding
Society of American Military Engineers (SAME)	Environmental Engineering	2	Taliyah	Ruffin	Edna Karr High School	The Structural Systems of Wood as Mini-Floodgate to Minimize Flooding
Society of American Military Engineers (SAME)	Engineering Mechanics	1	Grayson	Barron	John Curtis Christian	Built to Last, Built to Serve, Built to Protect!
Stockholm Junior Water Prize	Earth and Environmental Sciences	1	Ayanna Marie	Irvin	Edna Karr High School	The Effect of the Opening of Bonnet Carre' Spillway on the Water Quality of North Shore and South Shore
Stockholm Junior Water Prize	Earth and Environmental Sciences	1	Jacke	Meloncon	John Curtis Christian	Waters Being Smothered: Salvinia-eating Weevil!
Stockholm Junior Water Prize	Earth and Environmental Sciences	1	Mary Grace	Foster	Lusher Charter School	Fungal Growth in Relation to Volatile Compounds from Crude Oil

Stockholm Junior Water Prize	Environmental Engineering	1	Madalin	Fortmayer	John Curtis Christian	Why Were the Steel Pilings Left Unpainted in the New Orleans Levees After Katrina?
Stockholm Junior Water Prize	Environmental Engineering	1	Emily	Kraus	Patrick F. Taylor Science & Technology Academy	To what extent is it possible to stop micro plastic pollution at its source - the washing machine?
Stockholm Junior Water Prize	Plant Sciences	1	Michael	Sam-Pang	John Curtis Christian	Can Electrical Stimulation & Hydroponics Increase Plant Growth?
Structural Engineering Institute of the American Society of Civil Engineers-N.O. Branch	Engineering Mechanics	2	Nicholas	Ward	John Curtis Christian	Which Type of Bridge Design Will Hold the Most Mass?
Structural Engineering Institute of the American Society of Civil Engineers-N.O. Branch	Engineering Mechanics	1	Alex	Giacona	Holy Cross School	Cluster Buster: What 3D printed shape cluster is best at resisting compression forces?
Tulane 1982 Alumni Civil Engineering Award	Environmental Engineering	1	Madalin	Fortmayer	John Curtis Christian	Why Were the Steel Pilings Left Unpainted in the New Orleans Levees After Katrina?
Tulane 1982 Alumni Civil Engineering Award	Materials Science	1	Abbi	Curtis	John Curtis Christian	Which Type of Concrete Absorbs the Most Water the Quickest?
Tulane Brain Insitute Award	Biomedical, Health and Translational Medical Sciences	1	Rachel	Pizzolato	John Curtis Christian	Helmet Specific Position Technology to Reduce CTE/Brain Injury.
U.S. Agency for International Development (USAID)	Plant Sciences	1	Michael	Sam-Pang	John Curtis Christian	Can Electrical Stimulation & Hydroponics Increase Plant Growth?
U.S. Department of Agriculture - Agricultural Research Service	Biochemistry, Cellular and Molecular Biology	1	Isabelle	Plaisance	Isidore Newman School	Analysis of Foods for GMOs

U.S. Metric Association	Computational Biology, Bioinformatics, and Biomedical Engineering	1	Jaudai	Vappie	Sci High	The Vappie Produce Index
Yale Science & Engineering Association, Inc.	Energy: Physical	1	Louis	Veillion	Holy Cross School	Color's effect on the transfer of energy
Yale Science & Engineering Association, Inc.	Physics and Astronomy	1	Michael	Zengel	Benjamin Franklin High School	Variance of the Angle of Incidence in the Double Slit Experiment

2020 Volunteer of the Year Award

The Greater New Orleans Science and Engineering Fair would not exist without many volunteers who dedicate time and energy to making it happen, including our Board of Directors, Scientific Review Committee, Event Planning Committee, and Judges and Event Volunteers. This year we would like to recognize a Volunteer of the Year who has gone above and beyond the call of duty to empower our youth to pursue scientific inquiry and engineering design. Her commitment and enthusiasm for educating students and facilitating opportunities for them has contributed significantly to the success of this venture and of our students. We know she is familiar with late nights, serious discussions, and sometimes confusing rules that have to be clarified by taking questions to the national level. Her contribution is unmeasurable and sincerely appreciated. Please join me in acknowledging and congratulating:

Andrea Walker

Chair of the GNOSEF Scientific Review Committee