



Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|---|---|--|------------|--|--|
| 1st Place Category Winners Senior Division | |  | | | |
| 1 | Animal Sciences | Camille | Moss | Ben Franklin High | Food preference of the invasive giant apple snail, Pomacea maculata |
| 1 | Behavioral and Social Sciences | A'Jenai | Johnson | John Curtis Christian | Gender Multi-tasking--Does Noise or Silence Affect Testing Between Males & Females? |
| 1 | Biochemistry and Cellular and Molecular Biology | Bergen | Sanderford | Isidore Newman High School | Therapeutic cloning combining donor decellularization and recipients own cells, prevents organ rejection. |
| 1 | Biomedical, Health, and Translational Medical Sciences | Ilaria | Simeone | Ben Franklin High | The mechanistic effects of stromal vascular fraction versus adipose stem cell therapy on macrophage phenotypes in a Mus musculus model of multiple sclerosis |
| 1 | Chemistry | Tyler | Libert | Patrick F. Taylor Science & Technology Academy | What is the effect of composition on reactivity on Dion-Jacobson perovskites? |
| 1 | Computational Biology, Bioinformatics, and Biomedical Engineering | Jordan | Canamar | John Curtis Christian | Pikachurin Protein-Analysis in the Human Lineage Using BLAST |

Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|-------|--|-----------|------------|--|---|
| 1 | Earth and Environmental Sciences | Joye | Pate | Patrick F. Taylor Science & Technology Academy | What are the trends in lead emissions in Louisiana over time and space? |
| 1 | Embedded Systems and Robotics and Intelligent Machines | Denton | Young | John Curtis Christian | Low wifi connection? |
| 1 | Energy: Chemical | Ava | Dejoie | Ben Franklin High | Comparison of energy derived from microbial fuel cells versus standard batteries |
| 1 | Energy: Physical | David | Lin | Haynes | The Magnet Generator |
| 1 | Engineering Mechanics | Marissa | Nguyen | Patrick F. Taylor Science & Technology Academy | How can medical prostheses be improved based on specific accommodations and overall experience of patients? |
| 1 | Environmental Engineering | Mason | Varuso | Patrick F. Taylor Science & Technology Academy | How does the thermal conductivity of liquids affect heat absorption in photovoltaic troughs? |
| 1 | Materials Science | Isaac | Fincher | John Curtis Christian | Which Material is the Best Noise Insulator? |
| 1 | Mathematics and Systems Software | Joseph | Eames | Ben Franklin High | Engineering a sun tracking photo voltaic panel. |
| 1 | Microbiology | Jared | Brodthmann | Holy Cross | Dirty money: How much bacteria is lurking in your wallet? |
| 1 | Physics and Astronomy | Benjamin | Ebrahim | Ben Franklin High | The Effect of Bleach on the Voltage and Amperage Output of an Aluminum and Copper Battery |
| 1 | Plant Sciences | Amie | Sigur | Haynes | Effects of hydrogen peroxide on seed germination |


Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|---|---|--|-------------|--|---|
| 2nd Place Category Winners Senior Division | |  | | | |
| 2 | Animal Sciences | DeDe | Drouilhet | Ben Franklin High | The effects of the monosaccharides, glucose and fructose, and the disaccharide, sucrose, on the lifespan of <i>Danaus plexippus</i> |
| 2 | Animal Sciences | Adelai | Evans | Ben Franklin High | The effects of the monosaccharides, glucose and fructose, and the disaccharide, sucrose, on the lifespan of <i>Danaus plexippus</i> |
| 2 | Behavioral and Social Sciences | Henry | Vollmer | Ben Franklin High | The effect of mathematics progression on short term memory and pattern recognition |
| 2 | Biochemistry and Cellular and Molecular Biology | Keenan | Hurst | John Curtis Christian | Bitter Tasting Ability and the TAS2R38 Gene |
| 2 | Biomedical, Health, and Translational Medical Sciences | Madison | Pierce | Patrick F. Taylor Science & Technology Academy | What factors are most influential in determining success of post-operative physical therapy? |
| 2 | Chemistry | Alexandra | Miserendino | Patrick F. Taylor Science & Technology Academy | What is the effect of different photocatalysts on the photodegradation of oil? |
| 2 | Computational Biology, Bioinformatics, and Biomedical Engineering | Jay | Xiong | Ben Franklin High | Engineering of active TagRFP-HsEg5 motor protein |

Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|-------|--|-----------|-----------|--|---|
| 2 | Earth and Environmental Sciences | Maia | Edwards | Ben Franklin High | The effects of glyphosphate concentration on growth of Daphnia magna populations |
| 2 | Embedded Systems and Robotics and Intelligent Machines | Corey | Seiser | John Curtis Christian | Now you see them, soon you won't; disappearing islands of the Barataria Basin |
| 2 | Energy: Chemical | Cameron | Dunn | Ben Franklin High | The effect of angle on solar panel's sunlight collection. |
| 2 | Energy: Physical | Devin | Nguyen | Patrick F. Taylor Science & Technology Academy | What is the effect of the angle of attack on the amount of energy generated by hydro-turbine? |
| 2 | Engineering Mechanics | Isiah | Byrd | Lusher Charter School | Brake Light Enhancement system |
| 2 | Engineering Mechanics | Gerald | Henry | Lusher Charter School | Brake Light Enhancement system |
| 2 | Environmental Engineering | Kiara | Horton | Patrick F. Taylor Science & Technology Academy | What type of system can schools nationwide use to evaluate use of green infrastructure? |
| 2 | Materials Science | Andrew | Pitari | John Curtis Christian | Which Has a Higher Ignitability: Synthetic or Natural Fabrics? |
| 2 | Mathematics and Systems Software | Cebastion | Rubio | John Curtis Christian | What is the Mass of the Earth? |
| 2 | Microbiology | Camille | Fischmann | Ben Franklin High | The Effect of Cinnamon as a mold Inhibitor on Applesauce |
| 2 | Physics and Astronomy | Michael | Glaser | Ben Franklin High | The Effect of Liquid Cooling on the Energy Efficiency of Solar Panels |
| 2 | Plant Sciences | Catherine | Doherty | Ben Franklin High | Effects of Potassium Nitrate, Calcium Nitrate, and Iodine on Phaseolus Vulgaris |


Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|---|---|--|-----------------|-------------------|---|
| 3rd Place Category Winners Senior Division | |  | | | |
| 3 | Animal Sciences | Elle | McCall | Ben Franklin High | Locomotion and limb proportions in primates |
| 3 | Behavioral and Social Sciences | Etienne | Adams | Ben Franklin High | Does the amount of art classes determine drawing ability? |
| 3 | Biochemistry and Cellular and Molecular Biology | Jack | Wang | Ben Franklin High | The effect of myeloperoxidase function on mouse intestinal microbiota |
| 3 | Biomedical, Health, and Translational Medical Sciences | Skylar | Randall | Haynes | E-cigarette or E-bigger threat? |
| 3 | Chemistry | Sierra | Dashner | Ben Franklin High | The effects of avocado, argan oil, eggs, and coconut oil on the strength of air |
| 3 | Chemistry | Kaylee | Johnson | Ben Franklin High | The effects of avocado, argan oil, eggs, and coconut oil on the strength of hair |
| 3 | Computational Biology, Bioinformatics, and Biomedical Engineering | Longsha | Liu | Ben Franklin High | Gene Expression Patterns of Fgf8 and Fgf10 in Joint Regeneration |
| 3 | Earth and Environmental Sciences | Maanasa | Narayanamoorthy | Ben Franklin High | Analysis of pesticide residues in fresh produce across New Orleans grocery stores |

Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|-------|--|-----------|------------|--|---|
| 3 | Embedded Systems and Robotics and Intelligent Machines | Antonio | James | John Curtis Christian | Can Certain Materials Block WIFI? |
| 3 | Energy: Chemical | Destinee | Rogers | John Ehret High School | The Effect of Temperature on the Time of Luininol Glowed |
| 3 | Energy: Physical | Ashley | Seiser | John Curtis Christian | How Does the Width of a Windmill Fan Blade Affect the Output of a Generator? |
| 3 | Engineering Mechanics | Sam | Tejeda | Patrick F. Taylor Science & Technology Academy | Given that design of hurricane protection structures changed after Katrina, will the new/current design provide adequate protection when sea level rises? |
| 3 | Environmental Engineering | Conor | Bertucci | Ben Franklin High | The effects of shade apparatuses on evaporation |
| 3 | Materials Science | Tristyn | Mussall | John Ehret High School | The Effect of Corrosion on Metal Wrapped Nails |
| 3 | Mathematics and Systems Software | Meagan | Kelly | Haynes | Blood Spatter Matters |
| 3 | Microbiology | Ethan | Nicklow | Ben Franklin High | Comparing the effects of Allium sativum and ampicillin on inhibiting the growth of E. coli and B. subtilis |
| 3 | Physics and Astronomy | Wyatt | Heitmeier | Holy Cross | How does a wing fly-A study of Bernoulli's equation |
| 3 | Physics and Astronomy | Zachary | St. Pierre | Holy Cross | How does a wing fly-A study of Bernoulli's equation |
| 3 | Plant Sciences | Joshua | Crawford | Holy Cross | Hydroponic growing improvement system |

Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|---|--|--|-----------|--|--|
| 4th Place Category Winners Senior Division | |  | | | |
| 4 | Animal Sciences | Victoria | Interiano | John Curtis Christian | Which Color of Snapdragon Flowers Attract the Most Bees---White or Dark? |
| 4 | Animal Sciences | Anissa | Christmas | New Orleans Charter Math and Science High School | The Effect of Aloe Vera on Worm Regeneration |
| 4 | Animal Sciences | Jurnee | Scott | New Orleans Charter Math and Science High School | The Effect of Aloe Vera on Worm Regeneration |
| 4 | Behavioral and Social Sciences | Jack | Tomeny | Holy Cross | The effect of playing a musical instrument on memory |
| 4 | Biochemistry and Cellular and Molecular Biology | Tracy | Perez | John Curtis Christian | Which Homeopathic Remedy Lightens Hair the Fastest? |
| 4 | Biochemistry and Cellular and Molecular Biology | Crystal | Roa | John Ehret High School | Which Type of Citrus Fruit has the Most Vitamin C |
| 4 | Biomedical, Health, and Translational Medical Sciences | Angelina | Morales | Thomas Jefferson Senior High | Which drink stains eggs the most: punch, cranberry juice, or cola? |

Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|-------|----------------------------------|-----------|------------|------------------------|--|
| 4 | Chemistry | Emilie | Tran | Ben Franklin High | The correlation between blood types and the 5 factor personality model |
| 4 | Chemistry | Sydney | Steiner | Ben Franklin High | The effect of natural and manmade drinks on electrolytes |
| 4 | Earth and Environmental Sciences | Joshua | Hartley | John Curtis Christian | Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential for Rare Earth Elements? |
| 4 | Earth and Environmental Sciences | Alexis | Lang | John Curtis Christian | Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential for Rare Earth Elements? |
| 4 | Earth and Environmental Sciences | Blythe | Broussard | John Curtis Christian | How Does Saltwater Intrusion Affect Louisiana's Wetlands? --Measuring Chlorophyll Levels in Wetland Grasses. |
| 4 | Energy: Chemical | Andrew | Cannata | Ben Franklin High | The effect of temperature on battery life |
| 4 | Energy: Physical | Kelsea | Trecek | Grace King High School | Do different light bulbs produce different temperatures? |
| 4 | Energy: Physical | Xavier | Mitchell | John Curtis Christian | Will Solar Power Deliver More Power as it is Exposed to More Light? |
| 4 | Engineering Mechanics | Jacob | Zanca | Haynes | Protection against flooding |
| 4 | Engineering Mechanics | Suraj | Zaveri | Haynes | How does bridge design affect weight bearing capacity? |
| 4 | Environmental Engineering | Swathi | Katakam | Haynes | Which material absorbs the most oil? |
| 4 | Environmental Engineering | Aishu | Natarajan | Haynes | Which protective coating best prevents corrosion at extreme conditions? |
| 4 | Materials Science | Cooper | Slack | Ben Franklin High | Effects of different materials on reflectance of 940nm wavelength light |
| 4 | Materials Science | Matthew | Perniciaro | John Curtis Christian | Reduction of Atmospheric and Salt Water Corrosion on Stainless, Aluminum and Carbon Steel |

Greater New Orleans Science and Engineering Fair CATEGORY AWARDS

| Place | Category | FirstName | LastName | School | ProjectTitle |
|-------|----------------------------------|-----------|------------|-----------------------|--|
| 4 | Materials Science | Meredith | Perniciaro | John Curtis Christian | Reduction of Atmospheric and Salt Water Corrosion on Stainless, Aluminum and Carbon Steel |
| 4 | Mathematics and Systems Software | Jesse | Gimble | Ben Franklin High | Evaluation of Benfords Law in real-world data set: correlation with IRSE POP Statictics |
| 4 | Mathematics and Systems Software | Rachel | Drake | John Curtis Christian | Do Different Times Affect the Accuracy of Eratosthenes' Method to Measure the Earth's Circumference? |
| 4 | Microbiology | Gideon | Daniels | John Curtis Christian | "Killer Coffee" |
| 4 | Physics and Astronomy | Stephen | Gurtner | Holy Cross | Does temperature of a magnet affect its strength? |
| 4 | Physics and Astronomy | Christian | Pham | John Curtis Christian | Ferromagnetics |
| 4 | Physics and Astronomy | Neel | Mondal | Haynes | Effect of mass on a spring's frequency & period |
| 4 | Plant Sciences | Kelvin | Nguyen | Ben Franklin High | The effects of Vitamin C on Phaseolus Vulgaris |
| 4 | Plant Sciences | Andrew | Vu | Haynes | Aquaponics vs. hydroponics |

Senior Division Special Award Winners

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|-----------|--|-----------------|---|
| American Institute of Aeronautics and Astronautics (AIAA) Greater New Orleans Section | | | | | | |
| Mathematics and Systems Software | HM | Cebastion | Rubio | John Curtis Christian | Boucvalt, Cathy | What is the Mass of the Earth? |
| Materials Science | HM | Isaac | Fincher | John Curtis Christian | Boucvalt, Cathy | Which Material is the Best Noise Insulator? |
| Energy: Chemical | 3 | Ava | Dejoie | Ben Franklin High | Dr. Dutta | Comparison of energy derived from microbial fuel cells versus standard batteries |
| Mathematics and Systems Software | 3 | Joseph | Eames | Ben Franklin High | Ms. Hartman | Engineering a sun tracking photo voltaic panel. |
| Energy: Physical | 2 | Devin | Nguyen | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What is the effect of the angle of attack on the amount of energy generated by hydro-turbine? |
| Physics and Astronomy | 1 | Christian | Pham | John Curtis Christian | Boucvalt, Cathy | Ferromagnetics |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-------------|-----------------------|------------------|---|
| American Meteorological Society (AMS) | | | | | | |
| Earth and Environmental Sciences | 1 | Kyle | Gaudet | Holy Cross | W. Bernard | Does the pH and salinity of water affect the growth of Phragmites australis in wetlands of southeast Louisiana? |
| Earth and Environmental Sciences | 1 | Blythe | Broussard | John Curtis Christian | Boucvalt, Cathy | How Does Saltwater Intrusion Affect Louisiana's Wetlands? --Measuring Chlorophyll Levels in Wetland Grasses. |
| Embedded Systems and Robotics and Intelligent | 1 | Corey | Seiser | John Curtis Christian | Boucvalt, Cathy | Now you see them, soon you won't; disappearing islands of the Barataria Basin |
| Plant Sciences | 1 | Brittanie | Benzenhafer | John Curtis Christian | Simmons, Anthony | Sunlight vs. Artificial Light |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-----------|--|-----------------|--|
| American Petroleum Institute (API) Delta Chapter | | | | | | |
| Environmental Engineering | 3 | Mason | Varuso | Patrick F. Taylor Science & Technology Academy | Janell Simpson | How does the thermal conductivity of liquids affect heat absorption in photovoltaic troughs? |
| Physics and Astronomy | 2 | Michael | Glaser | Ben Franklin High | Ms. Burchette | The Effect of Liquid Cooling on the Energy Efficiency of Solar Panels |
| Earth and Environmental Sciences | 1 | Hayden | Waldvogel | Holy Cross | David Westfall | What is the best way to clean up oil from an oil spill? |
| American Psychological Association | | | | | | |
| Behavioral and Social Sciences | 1 | Henry | Vollmer | Ben Franklin High | Ms. Steinbauer | The effect of mathematics progression on short term memory and pattern recognition |
| Behavioral and Social Sciences | 1 | A'Jenai | Johnson | John Curtis Christian | Boucvalt, Cathy | Gender Multi-tasking--Does Noise or Silence Affect Testing Between Males & Females? |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|------------|--|-----------------|---|
| American Welding Society - New Orleans Section | | | | | | |
| Materials Science | HM | Tristyn | Mussall | John Ehret High School | D.Bloome nstiel | The Effect of Corrosion on Metal Wrapped Nails |
| Materials Science | 1 | Meredith | Perniciaro | John Curtis Christian | Boucvalt, Cathy | Reduction of Atmospheric and Salt Water Corrosion on Stainless, Aluminum and Carbon Steel |
| Materials Science | 1 | Matthew | Perniciaro | John Curtis Christian | Boucvalt, Cathy | Reduction of Atmospheric and Salt Water Corrosion on Stainless, Aluminum and Carbon Steel |
| ASM International Foundation | | | | | | |
| Materials Science | 2 | Andrew | Pitari | John Curtis Christian | Boucvalt, Cathy | Which Has a Higher Ignitability: Synthetic or Natural Fabrics? |
| Materials Science | 1 | Tristyn | Mussall | John Ehret High School | D.Bloome nstiel | The Effect of Corrosion on Metal Wrapped Nails |
| Association for Women Geoscientists Foundation | | | | | | |
| Earth and Environmental Sciences | 1 | Joye | Pate | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What are the trends in lead emissions in Louisiana over time and space? |

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|---|-------|------------|-----------------|--|----------------|--|
| ASU Rob and Melani Walton Sustainability Solutions Initiatives | | | | | | |
| Animal Sciences | 1 | Camille | Moss | Ben Franklin High | K. Clincy | Food preference of the invasive giant apple snail, Pomacea maculata |
| Earth and Environmental Sciences | 1 | Maanasa | Narayanamoorthy | Ben Franklin High | Dr. Spahn | Analysis of pesticide residues in fresh produce across New Orleans grocery stores |
| Earth and Environmental Sciences | 1 | Joye | Pate | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What are the trends in lead emissions in Louisiana over time and space? |
| Engineering Mechanics | 1 | Sam | Tejeda | Patrick F. Taylor Science & Technology Academy | Janell Simpson | Given that design of hurricane protection structures changed after Katrina, will the new/current design provide adequate protection when sea |
| Bruce J. Heim Foundation | | | | | | |
| Biomedical, Health, and Translational Medical | 1 | Ilaria | Simeone | Ben Franklin High | Ms. Clincy | The mechanistic effects of stromal vascular fraction versus adipose stem cell therapy on macrophage phenotypes in a Mus musculus model of multiple |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|-----------------|--|--------------------|--|
| GENIUS (Global Environmental Issues) Olympiad | | | | | | |
| Chemistry | 1 | Alexandra | Miserendino | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What is the effect of different photocatalysts on the photodegradation of oil? |
| Earth and Environmental Sciences | 1 | Maanasa | Narayanamoorthy | Ben Franklin High | Dr. Spahn | Analysis of pesticide residues in fresh produce across New Orleans grocery stores |
| Gulf Coast Safety and Training Group | | | | | | |
| Biomedical, Health, and Translational Medical | 1 | Madison | Pierce | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What factors are most influential in determining success of post-operative physical therapy? |
| Materials Science | 1 | Andrew | Pitari | John Curtis Christian | Boucvalt, Cathy | Which Has a Higher Ignitability: Synthetic or Natural Fabrics? |
| Intel Excellence in Computer Science | | | | | | |
| Embedded Systems and Robotics and Intelligent | 1 | Corey | Seiser | John Curtis Christian | Boucvalt, Cathy | Now you see them, soon you won't; disappearing islands of the Barataria Basin |
| Mathematics and Systems Software | 1 | Joseph | Eames | Ben Franklin High | Ms. Hartman | Engineering a sun tracking photo voltaic panel. |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-------------|--|-------------------|---|
| Iota Sigma Pi, National Honor Society for Women in Chemistry (Local Chapter) | | | | | | |
| Chemistry | 1 | Alexandra | Miserendino | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What is the effect of different photocatalysts on the photodegradation of oil? |
| I-SWEEP- International Sustainable World (Energy, Engineering, & Environment) Project Olympiad | | | | | | |
| Environmental Engineering | 2 | Kiara | Horton | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What type of system can schools nationwide use to evaluate use of green infrastructure? |
| Earth and Environmental Sciences | 1 | Joye | Pate | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What are the trends in lead emissions in Louisiana over time and space? |
| M. S. Benbow & Associates | | | | | | |
| Energy: Chemical | 2 | Ava | Dejoie | Ben Franklin High | Dr. Dutta | Comparison of energy derived from microbial fuel cells versus standard batteries |
| Energy: Chemical | 1 | Andrew | Cannata | Ben Franklin High | Mr. Moorhead | The effect of temperature on battery life |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|-----------|-----------------------|-----------------|---|
| MENSA - (The High IQ Society), N.O. Chapter | | | | | | |
| Physics and Astronomy | 2 | Michael | Glaser | Ben Franklin High | Ms. Burchette | The Effect of Liquid Cooling on the Energy Efficiency of Solar Panels |
| Mathematics and Systems Software | 1 | Joseph | Eames | Ben Franklin High | Ms. Hartman | Engineering a sun tracking photo voltaic panel. |
| Mu Alpha Theta | | | | | | |
| Mathematics and Systems Software | 1 | Jesse | Gimble | Ben Franklin High | Dr. Tabony | Evaluation of Benfords Law in real-world data set: correlation with IRSE POP Statictics |
| Mathematics and Systems Software | 1 | Cebastion | Rubio | John Curtis Christian | Boucvalt, Cathy | What is the Mass of the Earth? |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-----------|-----------------------|-----------------|--|
| NASA EARTH System Science Award | | | | | | |
| Earth and Environmental Sciences | 1 | Joshua | Hartley | John Curtis Christian | Boucvalt, Cathy | Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential for Rare Earth Elements? |
| Earth and Environmental Sciences | 1 | Alexis | Lang | John Curtis Christian | Boucvalt, Cathy | Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential for Rare Earth Elements? |
| Earth and Environmental Sciences | 1 | Blythe | Broussard | John Curtis Christian | Boucvalt, Cathy | How Does Saltwater Intrusion Affect Louisiana's Wetlands? --Measuring Chlorophyll Levels in Wetland Grasses. |
| National Oceanic and Atmospheric Administration (NOAA) | | | | | | |
| Earth and Environmental Sciences | 1 | Blythe | Broussard | John Curtis Christian | Boucvalt, Cathy | How Does Saltwater Intrusion Affect Louisiana's Wetlands? --Measuring Chlorophyll Levels in Wetland Grasses. |
| Engineering Mechanics | 1 | Jacob | Zanca | Haynes | D. Prentice | Protection against flooding |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-----------|--|-----------------|--|
| Neuroscience | | | | | | |
| Biomedical, Health, and Translational Medical | 2 | Ilaria | Simeone | Ben Franklin High | Ms. Clincy | The mechanistic effects of stromal vascular fraction versus adipose stem cell therapy on macrophage phenotypes in a Mus musculus model of multiple |
| Mathematics and Systems Software | 1 | Rayne | Torry | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What type of filter will outperform other smoothing mechanisms in removing detrimental noise and microevents without distorting the |
| New Orleans Federal Executive Board | | | | | | |
| Energy: Physical | 1 | Devin | Nguyen | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What is the effect of the angle of attack on the amount of energy generated by hydro-turbine? |
| New Orleans Geological Society | | | | | | |
| Earth and Environmental Sciences | 3 | Blythe | Broussard | John Curtis Christian | Boucvalt, Cathy | How Does Saltwater Intrusion Affect Louisiana's Wetlands? --Measuring Chlorophyll Levels in Wetland Grasses. |
| Earth and Environmental Sciences | 2 | Hayden | Waldvogel | Holy Cross | David Westfall | What is the best way to clean up oil from an oil spill? |
| Earth and Environmental Sciences | 1 | Keiana | Cave | Lusher Charter School | Stephen Collins | Quantifying the Interactions Between Aldehydes (Propionaldehyde, Octanal, and Hexanal) and Bacterial Endophytes from the Deepwater Horizon Oil Spill |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|-----------|--|-----------------|--|
| New Orleans Section of NACE International | | | | | | |
| Materials Science | 2 | Andrew | Pitari | John Curtis Christian | Boucvalt, Cathy | Which Has a Higher Ignitability: Synthetic or Natural Fabrics? |
| Materials Science | 1 | Tristyn | Mussall | John Ehret High School | D.Bloome nstiel | The Effect of Corrosion on Metal Wrapped Nails |
| Office of Naval Research | | | | | | |
| Biomedical, Health, and Translational Medical | 1 | Ilaria | Simeone | Ben Franklin High | Ms. Clincy | The mechanistic effects of stromal vascular fraction versus adipose stem cell therapy on macrophage phenotypes in a Mus musculus model of multiple |
| Mathematics and Systems Software | 1 | Jesse | Gimble | Ben Franklin High | Dr. Tabony | Evaluation of Benfords Law in real-world data set: correlation with IRSE POP Statictics |
| Mathematics and Systems Software | 1 | Joseph | Eames | Ben Franklin High | Ms. Hartman | Engineering a sun tracking photo voltaic panel. |
| Mathematics and Systems Software | 1 | Marco | Flores | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What is the effect of various web vulnerabilities on the user-end root access? |

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|---|-------|------------|-----------|--------------------------|--------------------|--|
| Ricoh Americas Corporation | | | | | | |
| Energy: Chemical | 1 | Cameron | Dunn | Ben Franklin High | Mr. Moorhead | The effect of angle on solar panel's sunlight collection. |
| Physics and Astronomy | 1 | Michael | Glaser | Ben Franklin High | Ms. Burchette | The Effect of Liquid Cooling on the Energy Efficiency of Solar Panels |
| Sierra Club, New Orleans Group | | | | | | |
| Earth and Environmental Sciences | 2 | Maia | Edwards | Ben Franklin High | Dr. Spahn | The effects of glyphosphate concentration on growth of Daphnia magna populations |
| Earth and Environmental Sciences | 1 | Keiana | Cave | Lusher Charter School | Stephen Collins | Quantifying the Interactions Between Aldehydes (Propionaldehyde, Octanal, and Hexanal) and Bacterial Endophytes from the Deepwater Horizon Oil Spill |
| Society for In Vitro Biology | | | | | | |
| Computational Biology, Bioinformatics, and | 1 | Longsha | Liu | Ben Franklin High | Ms. Clincy | Gene Expression Patterns of Fgf8 and Fgf10 in Joint Regeneration |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-----------|------------------------|-----------------|--|
| Society for Toxicology | | | | | | |
| Biochemistry and Cellular and Molecular Biology | 1 | Jack | Wang | Ben Franklin High | Dr. Spahn | The effect of myeloperoxidase function on mouse intestinal microbiota |
| Biochemistry and Cellular and Molecular Biology | 1 | Joey | Moraitis | Ben Franklin High | Dr. Warzeski | Using hyperspectral reflectance and fluorometry to detect mold growth and aflatoxin accumulation in corn kernels |
| Biochemistry and Cellular and Molecular Biology | 1 | Keenan | Hurst | John Curtis Christian | Boucvalt, Cathy | Bitter Tasting Ability and the TAS2R38 Gene |
| Biochemistry and Cellular and Molecular Biology | 1 | JoAnn | Vu | John Ehret High School | D.Bloome nstiel | The Effect of Salinity on Seed Sprout Growth |
| Computational Biology, Bioinformatics, and | 1 | Jay | Xiong | Ben Franklin High | Dr. Spahn | Engineering of active TagRFP-HsEg5 motor protein |
| Earth and Environmental Sciences | 1 | Hayden | Waldvogel | Holy Cross | David Westfall | What is the best way to clean up oil from an oil spill? |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|-----------|--|-----------------|--|
| Microbiology | 1 | Camille | Fischmann | Ben Franklin High | Ms. Hartman | The Effect of Cinnamon as a mold Inhibitor on Applesauce |
| Plant Sciences | 1 | Kelvin | Nguyen | Ben Franklin High | Mr. Masterson | The effects of Vitamin C on Phaseolus Vulgaris |
| Plant Sciences | 1 | Brendon | Tiggs | John Curtis Christian | Boucvalt, Cathy | How Does Caffeine Affect Plant Growth? |
| Plant Sciences | 1 | Amie | Sigur | Haynes | D. Prentice | Effects of hydrogen peroxide on seed germination |
| Society of American Military Engineers (SAME) | | | | | | |
| Engineering Mechanics | 2 | Sam | Tejeda | Patrick F. Taylor Science & Technology Academy | Janell Simpson | Given that design of hurricane protection structures changed after Katrina, will the new/current design provide adequate protection when sea |
| Engineering Mechanics | 1 | Jacob | Zanca | Haynes | D. Prentice | Protection against flooding |

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|-------------------------------------|-------|------------|-----------------|--|-----------------|--|
| Stockholm Junior Water Prize | | | | | | |
| Chemistry | 1 | Taylor | Tarleton | Haynes | D. Prentice | Which drink has the most electrolytes? |
| Earth and Environmental Sciences | 1 | Maanasa | Narayanamoorthy | Ben Franklin High | Dr. Spahn | Analysis of pesticide residues in fresh produce across New Orleans grocery stores |
| Earth and Environmental Sciences | 1 | Blythe | Broussard | John Curtis Christian | Boucvalt, Cathy | How Does Saltwater Intrusion Affect Louisiana's Wetlands? --Measuring Chlorophyll Levels in Wetland Grasses. |
| Earth and Environmental Sciences | 1 | Keiana | Cave | Lusher Charter School | Stephen Collins | Quantifying the Interactions Between Aldehydes (Propionaldehyde, Octanal, and Hexanal) and Bacterial Endophytes from the Deepwater Horizon Oil Spill |
| Energy: Physical | 1 | Devin | Nguyen | Patrick F. Taylor Science & Technology Academy | Janell Simpson | What is the effect of the angle of attack on the amount of energy generated by hydro-turbine? |
| Environmental Engineering | 1 | Simone | McGowan | Thomas Jefferson Senior High | Lott, Hollie | Chlorine Removal From Water Through an Activated Carbon Filter |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|------------|-----------------------|-----------------|---|
| Physics and Astronomy | 1 | Benjamin | Ebrahim | Ben Franklin High | Ms. Hartman | The Effect of Bleach on the Voltage and Amperage Output of an Aluminum and Copper Battery |
| Plant Sciences | 1 | Andrew | Vu | Haynes | D. Prentice | Aquaponics vs. hydroponics |
| Structural Engineering Institute of the American Society of Civil Engineers-N.O. Branch | | | | | | |
| Materials Science | 2 | Matthew | Perniciaro | John Curtis Christian | Boucvalt, Cathy | Reduction of Atmospheric and Salt Water Corrosion on Stainless, Aluminum and Carbon Steel |
| Materials Science | 2 | Meredith | Perniciaro | John Curtis Christian | Boucvalt, Cathy | Reduction of Atmospheric and Salt Water Corrosion on Stainless, Aluminum and Carbon Steel |
| Engineering Mechanics | 1 | Suraj | Zaveri | Haynes | D. Prentice | How does bridge design affect weight bearing capacity? |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|--|-------|------------|-----------|--|-----------------|--|
| Tulane University School of Science and Engineering - Tulane Science Scholars Program | | | | | | |
| Biomedical, Health, and Translational Medical | 2 | Ilaria | Simeone | Ben Franklin High | Ms. Clincy | The mechanistic effects of stromal vascular fraction versus adipose stem cell therapy on macrophage phenotypes in a Mus musculus model of multiple |
| Environmental Engineering | 1 | Mason | Varuso | Patrick F. Taylor Science & Technology Academy | Janell Simpson | How does the thermal conductivity of liquids affect heat absorption in photovoltaic troughs? |
| U.S. Department of Agriculture - Agricultural Research Service | | | | | | |
| Biochemistry and Cellular and Molecular Biology | 1 | Richard | Chen | Ben Franklin High | Mr. Moorhead | Control of soybean rust disease via a novel host induced gene silencing (HIGS) approach |
| U.S. Metric Association | | | | | | |
| Mathematics and Systems Software | 1 | Cebastian | Rubio | John Curtis Christian | Boucvalt, Cathy | What is the Mass of the Earth? |
| Mathematics and Systems Software | 1 | Meagan | Kelly | Haynes | D. Prentice | Blood Spatter Matters |

| Category | Place | First Name | Last Name | School | Teacher | Project Title |
|---|-------|------------|-----------|-----------------------|-----------------|--|
| Women for a Better Louisiana | | | | | | |
| Earth and Environmental Sciences | 1 | Joshua | Hartley | John Curtis Christian | Boucvalt, Cathy | Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential for Rare Earth Elements? |
| Earth and Environmental Sciences | 1 | Alexis | Lang | John Curtis Christian | Boucvalt, Cathy | Can a Geiger Counter Provide an Inexpensive Method for Determining the Mining Potential for Rare Earth Elements? |
| Yale Science & Engineering Association, Inc. | | | | | | |
| Mathematics and Systems Software | 1 | Joseph | Eames | Ben Franklin High | Ms. Hartman | Engineering a sun tracking photo voltaic panel. |
| Physics and Astronomy | 1 | Michael | Glaser | Ben Franklin High | Ms. Burchette | The Effect of Liquid Cooling on the Energy Efficiency of Solar Panels |

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

American Society for Materials International Foundation will recognize the most outstanding 10th and 11th Grade High School (students going into 11th and 12th grade) 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 31 to August 5, 2016. 2nd place winner is recognized and is an alternate should the first place winner not be able to attend the materials camp.

(2nd) Andrew Pitari

John Curtis Christian

(1st) Tristyn Mussall

John Ehret High School

I-SWEEEP - Outstanding Sustainability Award (partial-expense-paid trip!)

The International Sustainable World (Energy, Engineering, & Environment) Project Olympiad recognition is awarded to the top high school project selected in the categories of Energy, Engineering, or Environment whose display shows outstanding work in the theme of environmental sustainability and innovation. The student and supervisor teacher (or parent) will have the opportunity to attend I-SWEEEP 2013 in Houston, TX on April 26-May 1, 2016, with hotel accommodation, all breakfasts and pre-arranged luncheons, and local transportation.

A 2nd place winner is recognized and is an alternate should the 1st place winner not be able to attend.

(2nd) Kiara Horton

Patrick F. Taylor Science & Technology Academy

(1st) Joye Pate

Lusher Charter School

Social Media Awards

Prizes are awarded to a Social Media Contest winners with five daily drawings throughout the week and an overall prize in both middle and high school. An additional prize is awarded to a middle school or high school student, not necessarily presenting in the GNOSEF. Students participate by using the hashtag #GNOSEF on Twitter, Facebook or Instagram to upload relevant text, pictures and videos, spreading the word about science!

Four of the GNOSEF daily prizes are awarded to Senior Division participants:

Joye Pate

Patrick F. Taylor Science & Technology Academy

Catherine Doherty

Ben Franklin High School

| | |
|--|--|
| Sam Tejada | Patrick F. Taylor Science & Technology Academy |
| Rayne Torry | Patrick F. Taylor Science & Technology Academy |
| <i>the prize for a participant not presenting in the GNOSEF goes to:</i> | |
| Wendy Louque | John Curtis Christian |
| <i>and the overall Senior Division winner is:</i> | |
| Kaylee Johnson | Ben Franklin High School |
| PATRICK F TAYLOR SCHOOL AWARDS | |
| <p>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.</p> | |
| Benjamin Franklin High School | |
| Grace King High School | |
| Haynes Academy for Advanced Studies | |
| Holy Cross | |
| John Curtis Christian | |
| John Ehret High School | |
| Patrick F. Taylor Science & Technology Academy | |
| Tulane University School of Science and Engineering - Tulane Science Scholars Program (TSSP) | |
| <p>The TSSP with financial support from the Bruce J. Heim Foundation will give a certificate and a full scholarship worth \$1250 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. A second place winner is recognized and is an alternate should the first place winner not be able to attend.</p> | |
| (2nd) Ilaria Simeone | Benjamin Franklin High School |
| (1st) - Mason Varuso | Patrick F. Taylor Science & Technology Academy |
| | |

Neuroscience/Machine Learnings Scholarship Award

The H. Britton Sanderford Neuroscience/Machine Learning Project Award recognizes excellent work in the field of neuroscience, the study of the molecular, cellular, developmental, structural, functional, evolutionary, computational, and medical aspects of the nervous system, and the field of machine learnings, a subfield of computer science and artificial intelligence that deals with the construction and study of systems that can learn from data, rather than follow only explicitly programmed instructions. ONE senior division (high school) winner will be presented with a \$4,000 college scholarship - \$1,000 per year provided the student is enrolled and maintains a minimum 3.0 average. This year, a runner-up will be presented with a \$1,000 college scholarship upon presentation of an acceptance letter into a college of their choice.

(2nd) Ilaria Simeone

Benjamin Franklin High School

(1st) Rayne Torry

Patrick F. Taylor Science & Technology Academy

James de la Houssaye 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. ONE winner will be selected for the top honor, which includes a \$5,000 cash award to the mentor and a \$5,000 award to his/her student's school for the enhancement of STEM education. A runner-up will receive a \$1,000 cash award and a \$1,000 award to his/her school.

(Runner-up) Janell Simpson

Patrick F. Taylor Science & Technology Academy

(1st) Annie Bowles

Benjamin Franklin High School

SENIOR DIVISION GRAND AWARD WINNERS

Four Grand Award Winners in the senior division are selected from 1st & 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, all 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.

Michael Glaser

Benjamin Franklin High School (teacher: Lisa Hartman)

| | |
|---|--|
| Tyler Libert | Patrick F. Taylor Science & Technology Academy (teacher: Janell Simpson) |
| Camille Moss | Benjamin Franklin High School (teacher: Kady Clincy) |
| Mason Varuso | Patrick F. Taylor Science & Technology Academy (teacher: Janell Simpson) |
| The 2 teachers selected by the Grand Award Judging Panel to attend ISEF are: | |
| Kady Clincy | Benjamin Franklin High School |
| Janell Simpson | Patrick F. Taylor Science & Technology Academy |