Greater New Orleans Science Fair, Inc. Region IX of Louisiana May 2019

A YEAR IN REVIEW

- GNOSEF (Regional Fair)
- ISEF (International Fair)
- Financial Report
- GNOSEF Wish List
- Current/Future Business
- GNOSEF Strengths
- Calendar for 2019-20

Annette Oertling Ph.D., Fair Director
Michelle Sanchez Ph.D., Fair Director
Greater New Orleans Science Fair, Inc.
Mission Statement

- provide a public event to display and recognize area students' research – the Greater New Orleans Science and Engineering Fair

- encourage independent student research in science and engineering,

- promote the understanding and appreciation of sciences,

- encourage youth to pursue science, math, or engineering careers,

- stimulate interest and support for science and math programs in area schools,

- promote collaboration and interaction between area students and scientists and engineers from the community and/or the world.
<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Board Involvement</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harriet</td>
<td>Aguiar-Netto</td>
<td>Programs-VolCoord</td>
<td>Women for a Better Louisiana</td>
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<tr>
<td>Nick</td>
<td>Altiero</td>
<td>President-StratPlanning</td>
<td>Tulane University - retired</td>
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<tr>
<td>Mike</td>
<td>Benbow</td>
<td>Strategic Planning</td>
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<td>Harry</td>
<td>Clark</td>
<td>Programs</td>
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<td>Scott</td>
<td>Edwards</td>
<td>Programs</td>
<td>LSUHSC</td>
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<td>Hopkins</td>
<td>Programs-Judge Advisor</td>
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<td>LaNasa</td>
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<td>McGinley</td>
<td>Treasurer-Programs</td>
<td>Tulane University - retired</td>
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<td>Nicole</td>
<td>Moody</td>
<td>Secretary-Programs</td>
<td>Tulane University</td>
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<tr>
<td>Lana</td>
<td>Nitti</td>
<td>Programs</td>
<td>Tulane University</td>
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<tr>
<td>Annette</td>
<td>Oertling</td>
<td>Fair Director</td>
<td>Tulane University - retired</td>
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<td>Barbara</td>
<td>Pailet</td>
<td>Strategic Planning</td>
<td>Bruce J. Heim Foundation</td>
</tr>
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<td>Arman</td>
<td>Sadeghpour</td>
<td>Strategic Planning</td>
<td>Tulane University, Theodent</td>
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<tr>
<td>Michelle</td>
<td>Sanchez</td>
<td>Fair Director</td>
<td>Tulane University</td>
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<tr>
<td>Britton</td>
<td>Sanderford</td>
<td>Strategic Planning</td>
<td>Axonn Corp., UNO Foundation</td>
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<td>Danielle</td>
<td>Scanlon</td>
<td>Programs</td>
<td>Tulane University</td>
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<tr>
<td>Janell</td>
<td>Simpson</td>
<td>Programs-SRC Member</td>
<td>Patrick F Taylor School - retired</td>
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<td>Cathie</td>
<td>Smith</td>
<td>Programs-SafetyJdgCoord</td>
<td>Jefferson Parish Public Schools - retired</td>
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<td>Erica</td>
<td>Smith</td>
<td>Programs-Judge Coordinator</td>
<td>Tulane University</td>
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<td>Andrea</td>
<td>Walker</td>
<td>Programs-SRC Chair</td>
<td>The GNO STEM Initiative - retired</td>
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</table>
# 2019-20 GNOSEF Advisory Council

<table>
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<tr>
<th>#</th>
<th>First Name</th>
<th>Last Name</th>
<th>Affiliation</th>
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<tr>
<td>1</td>
<td>Roberto</td>
<td>Diaz del Valle</td>
<td>A&amp;B Errand Services, LLC</td>
</tr>
<tr>
<td>2</td>
<td>Norma Jean</td>
<td>Mattei</td>
<td>University of New Orleans</td>
</tr>
<tr>
<td>3</td>
<td>Steve</td>
<td>Johnson</td>
<td>University of New Orleans</td>
</tr>
<tr>
<td>4</td>
<td>Kim</td>
<td>Jovanovich</td>
<td>University of New Orleans</td>
</tr>
</tbody>
</table>
Thank You to Our 2019 Sponsors!

* Platinum Sponsorship ($15,000 and above) *


Mr. H. Britton Sanderford also provides the James de la Houssaye $5,000 first place and $2,000 runner-up Mentor Awards recognizing a high school mentor for their educational and inspirational work with students, and a $2,000 Neuroscience / Machine Learnings Scholarship for excellent work by a student researcher.

* Gold Sponsorship ($7,500- $14,999) *

Patrick F. Taylor Foundation (2007-19)

The Patrick F Taylor Foundation also provides a $1,000 Scholarship to each of the top four Senior Division winners and $10,000 in materials and/or field trip grants for participating high schools which have a minimum of 10 projects competing in the senior division.

Entergy Corporation (2017-2019)

Entergy Corporation also provides a $1,000 Powering the Future Scholarship to a female, high-school senior with an outstanding, promising project.

Paul and Patty Habeeb Muehlemann 5-Year Sustainability Sponsorship (2018 – 2022)

In memory of Dorothy Van Lue Habeeb, founding member of the Greater New Orleans Science Fair, Inc., and in honor of Albert F.W. Habeeb M.D.

Mrs. Patty Muehlemann also provides a Dorothy Van Lue Habeeb $1,000 Scholarship (Sr. Division) and $50 award (Jr. Division) for an outstanding project focused on the study of Chemistry or the use of Chemistry as a tool in scientific inquiry or engineering design, and an Albert F.W. Habeeb M.D. $1,000 Scholarship (Sr. Division) and $50 award (Jr. Division) for an outstanding project related to Health Sciences.
*Bronze Sponsorship ($1,000-$2,499)*

The Joe W. and Dorothy Dorsett Brown Foundation (2019)

The Joe W. and Dorothy Dorsett Brown Foundation also provides the “Aspiring Researcher” Scholarship – a $2,500 undergraduate scholarship awarded to a high school female that demonstrates passion and promise for scientific research presented by the Emmy Noether Awards.

National Association of Corrosion Engineers (2008-2019)

The New Orleans Section of NACE International also provides 1st and 2nd place cash awards to Jr and Sr Division students and teachers for projects demonstrating the best understanding of corrosion. They also work with ASM International to provide an all-expense-paid trip to a one-week summer materials camp for the most outstanding 10th or 11th grade high school project in materials engineering science.

Society of Petroleum Engineers (2012-2019)

The Society of Petroleum Engineers also provides 1st and 2nd place cash awards to Junior Division students and teachers for outstanding projects related to the Oil Industry.


The American Petroleum Institute – Delta Chapter also provides 1st, 2nd, and 3rd place cash awards to Senior Division students and teachers for outstanding projects related to energy.

Hoists Direct, LLC (2017, 2019)

Laitram Corporation (2017-2019)

Anonymous Donor
* Blue Ribbon Sponsor ($500-$999) *

The Bruce J. Heim Foundation (2010-2019)
The Bruce J. Heim Foundation also provides a cash award to a Senior Division student their sponsoring teacher to recognize an Outstanding Medical Research Project.

American Society of Civil Engineers – New Orleans Branch (Local) (2018-2019)

* Red Ribbon Sponsor ($250-$499) *

Harriet Aguiar-Netto (2010-2018)
Individual Sponsor

* Honorable Mention ($25-$99) *

The American Welding Society - New Orleans Section also provides a cash award to a Junior and Senior Division student for the best project in the Welding or Materials Joining field.

* Community Supporters *

Tulane University
A&B Errand Services, LLC
Michael Maples Video Productions LLC

Loyola University
Women for a Better Louisiana
Maloney Productions
Greater New Orleans Science and Engineering Fair
February 18th-21st, 2019

**Junior Division**
(11 participated)
Benjamin Franklin Elementary
Christian Brothers
Holy Cross School *
International School of Louisiana – Camp
Islamic School of Greater New Orleans
John Curtis Christian *
John Q. Adams Middle School
Kenner Discovery Health Sci. Academy
Lake Forest Elementary Charter School
Riverdale Middle School
St. Andrew’s Episcopal School
(* both Jr. and Sr. Division)

Jr. Division Grand Award Winners (from left to right)
Kylie Walsdorf – John Curtis Christian
Emmeline Meyer – International School of LA

Adults pictured:
Dean Maria Calzada, Loyola
Associate Dean Beth Wee, Tulane
Dean Steve Johnson, UNO
Greater New Orleans Science and Engineering Fair
February 18th-21st, 2019

Sr. Division Grand Award Winners (from left to right)
Kraig Oramous – Ben Franklin H.S.
Alexander Walker – Patrick F. Taylor Academy
Grayson Barron – John Curtis Christian
Joaquin Gomez – Ben Franklin H.S.
Paean Luby – Ben Franklin H.S.

Adults pictured:
Ms. Cathy Boucvalt, John Curtis Christian
Ms. Amanda Godshaw, Patrick F. Taylor
Ms. Teresa Burchette, BFHS

Senior Division
(7 participated)
Benjamin Franklin High School
Edna Karr High School
Holy Cross School *
Isidore Newman High School
John Curtis Christian *
N.O. Charter Math and Science H.S.
Patrick F. Taylor Sci. & Tech. Academy
(* both Jr. and Sr. Division)
Participation in GNOSEF since 2007
(Limited by Number of Projects Per Category a School can Submit)
Guest Speakers at GNOSEF Award Ceremony

**Junior Division**

Stephanie Messina, M.S.
Program Manager
Education Outreach
Ochsner Health Center

**Senior Division**

Dr. Lars Gilbertson and Isabella Johnson
Tulane University
Department of Biomedical Engineering
Taylor Center for Social Innovation and Design Thinking
Through the generosity of our donors, more than $60,000 in awards and prizes were presented to talented students, teachers and schools!!!

Category awards were presented in 17 Senior Division and 13 Junior Division categories.

<table>
<thead>
<tr>
<th>Junior Division</th>
<th>Senior Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. First Place</td>
<td>$50 and medal</td>
</tr>
<tr>
<td>2. Second Place</td>
<td>$30 and medal</td>
</tr>
<tr>
<td>3. Third Place</td>
<td>$15 and medal</td>
</tr>
<tr>
<td>4. Honorable Mention</td>
<td>$10</td>
</tr>
<tr>
<td></td>
<td>$75 and medal</td>
</tr>
<tr>
<td></td>
<td>$50 and medal</td>
</tr>
<tr>
<td></td>
<td>$25 and medal</td>
</tr>
<tr>
<td></td>
<td>$15</td>
</tr>
</tbody>
</table>

1st Place Junior Division Winners

1st Place Senior Division Winners

1st and 2nd place winners in both the junior and senior divisions were certified for entry in the 2019 Louisiana Science and Engineering Fair (LSEF) conducted at LSU in Baton Rouge.
James de la Houssaye Mentor Award
(Senior Division)
sponsored by Mr. H. Britton Sanderford (established 2015)

OBJECTIVE
Recognize a high school mentor for their educational and inspirational work with students pursuing STEM inquiry.

2019 AWARDS
$1,000 cash award presented to SIX TEACHERS!!

Recipients:
Top row left to right
Dr. Cliff Robinson
Benjamin Franklin High School
Mr. David Kern
Isidore Newman High School
Ms. Amanda Godshaw
Patrick F. Taylor Sci & Tech Academy

Bottom row left to right
Dr. Janell Simpson
Patrick F. Taylor Sci & Tech Academy (retired)
Ms. Amy Mallozzi
New Orleans Charter Math and Science High School
Ms. Cathy Boucvalt
John Curtis Christian
OBJECTIVE

Provide incentive to increase student interest, enrollment, and performance in upper level math and science courses through participation in the GNOSEF.

2019 AWARDS

- $10,000 materials and field trip grant divided among eligible high schools.
- $1,666 grants to each of the top 6 winners in the senior division

2019 School Grant Recipients
- Edna Karr High School
- Holy Cross School
- Isidore Newman High School
- John Curtis Christian
- N.O. Charter Math and Science H.S.
- Patrick F. Taylor Science & Technology
A $2,500 undergraduate scholarship is awarded to a female high school student that demonstrates passion and promise for scientific research. Funding is provided by the Joe W. and Dorothy Dorsett Brown Foundation. The scholarship is presented upon receipt of an acceptance letter into a college of their choice.

Recipient: Emily Kraus, Patrick F. Taylor Science & Technology Academy

Also Pictured:
Jonathan Baynham, The Brown Foundation
Recognizes excellent work in the field of neuroscience, the study 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 programmed instructions.

$2,000 college scholarships were presented to the winner upon presentation of an acceptance letter into a college of their choice. This year, one runner-up, a team, was presented with a $500 college scholarship each upon presentation of an acceptance letter into a college of their choice.

$2,000 college scholarships were presented to the winner upon presentation of an acceptance letter into a college of their choice. This year, one runner-up, a team, was presented with a $500 college scholarship each upon presentation of an acceptance letter into a college of their choice.

**Recipients**

**Kevin Qi** (not pictured)
Isidore Newman High School

**(runner-ups)**

**Kraig Oramous and Joaquin Gomez**
Benjamin Franklin High School
Recognizes an exceptional project by a 10th or 11th grade student 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.

$1700 scholarship for a summer for-credit course. A second place winner is recognized and is an alternate should the first place winner not be able to attend.

Recipients

Olivia Pitt  
Isidore Newman High School  
(runner-up)  
Isabella Pita (not pictured)  
John Curtis Christian

Also pictured: Dr. Michelle Sanchez, Tulane, and Ms. Barbara Pailet, The Bruce J. Heim Foundation
$1000 college 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.

Recipient: Camille Patton, Isidore Newman High School
In honor of Albert F.W. Habeeb, M.D., a $1000 scholarship is presented to a Senior Division student for an outstanding project focused on health sciences to be presented upon acceptance into a University.

Recipient: Kelsey Lain, Benjamin Franklin High School
In memory of Dorothy Van Lue Habeeb, founding member of the GNOSEF, Inc., a $1000 scholarship is awarded to a Senior Division student for an outstanding project focused on chemistry or the use of chemistry as a tool in scientific inquiry or engineering design to be presented upon acceptance into a University.

Recipient: Garrett McNamara, Isidore Newman High School
GNOSEF Teacher/Mentor Awards
(Junior Division)

Presented to teacher/mentors who have gone the extra mile to support their students.

- $250 Cash Award to FOUR teachers (last year only 2)!!

Ms. Marla Watts
Lake Forest Elementary Charter School

Ms. Karen Marshall
International School of LA

Ms. Cathy Boucvalt
John Curtis Christian

Ms. Sharika Hagan
Lake Forest Elementary Charter School
Additional Local Special Awards

AIAA Greater New Orleans Section
American Chemical Society Louisiana Local Section
American Institute of Chemical Engineers – N. O. Section
American Petroleum Institute (API) Delta Chapter
American Society of Civil Engineers – New Orleans Branch
American Society of Naval Engineers – Central Gulf Coast Section
American Welding Society - New Orleans Section
Bruce J. Heim Foundation
Core Element
Electric Girls
IEEE New Orleans
Joyce Bagnetto-Matthews Memorial Award
Mad Science of Southeast Louisiana
MENSA - (The High IQ Society), N.O. Chapter
M.S. Benbow & Associates
New Orleans Geological Society
New Orleans Section of NACE International "The Corrosion Society"
Pontchartrain Astronomy Society
Society of American Military Engineers (SAME)
Society of Petroleum Engineers (SPE), Inc., Delta Chapter
Structural Engr. Institute of the Am. Soc. of Civil Engin.-N.O. Branch
U.S. Department of Agriculture - Agricultural Research Service
Women for a Better Louisiana
Additional National Special Awards

American Meteorological Society
American Psychological Association (APA)
ASM International Foundation
Association for Women Geoscientists Foundation
Biophysics Award (Biophysical Society)
Broadcom MASTERS
GENUIS OLYMPIAD
Intel Excellence in Computer Science
Lemelson Early Inventor Prize
Mu Alpha Theta
NASA EARTH System Science Award
National Oceanic and Atmospheric Administration (NOAA)
Regeneron Science Talent Search
Ricoh Americas Corporation
Society for In Vitro Biology
Society for Industrial Microbiology and Biotechnology
Stockholm Junior Water Prize
U.S. Air Force
U.S. Metric Association
U.S. Navy/U.S. Marine Corps – Office of Naval Research
Yale Science & Engineering Association, Inc.
Through the generosity of Mr. H. Britton Sanderford, 12 mini-grants (36 in 2017-2018) totaling $2,516.52 ($6,031.58 in 2017-2018) were provided to students at:

Isidore Newman High School
John Curtis Christian
New Orleans Charter Math and Science High School
Patrick F. Taylor Science & Technology Academy

The objective was to provide funding for worthy student projects that would otherwise not have the resources to participate.

To qualify for a mini-grant, students must: Submit ISEF forms that show they conform to the ISEF guidelines and submit an estimate of expenses

ALL AFFILIATED SCHOOLS ARE ELLIGIBLE AND NOTIFIED!
# GNOSEF Student Successes

## 2019 LA State Science and Engineering Fair (LSEF)

### SENIOR DIVISION CATEGORY AWARDS (15 projects)

<table>
<thead>
<tr>
<th>Place</th>
<th>Category</th>
<th>Student</th>
<th>School</th>
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<tbody>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>behavioral and social sciences</td>
<td>Paean Luby</td>
<td>Benjamin Franklin High School</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>biomedical engineering</td>
<td>Kylie L. Simon</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>biomedical and health sciences</td>
<td>Kelsey Lain</td>
<td>Benjamin Franklin High School</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>chemistry</td>
<td>Garrett McNamara</td>
<td>Isidore Newman School</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>chemistry</td>
<td>Anya R. Trumbach</td>
<td>Benjamin Franklin High School</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>embedded systems</td>
<td>Preston M. Guedry</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>energy: chemical</td>
<td>Alexander Walker</td>
<td>Patrick F. Taylor Science &amp; Technology Academy</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>environmental engineering</td>
<td>Emily Kraus</td>
<td>Patrick F. Taylor Science &amp; Technology Academy</td>
</tr>
<tr>
<td>HM</td>
<td>environmental engineering</td>
<td>Chris Ngo</td>
<td>Patrick F. Taylor Science &amp; Technology Academy</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>engineering mechanics</td>
<td>Grayson Barron</td>
<td>John Curtis Christian</td>
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<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>energy: physical</td>
<td>Rachel Pizzolato</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>HM</td>
<td>energy: physical</td>
<td>Cade C. Windstein</td>
<td>John Curtis Christian</td>
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<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>mathematics</td>
<td>Collin Guggenheim</td>
<td>John Curtis Christian</td>
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<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>robotics and intelligent machines</td>
<td>Kevin H. Qi</td>
<td>Isidore Newman School</td>
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<tr>
<td>HM</td>
<td>systems software</td>
<td>Joaquin A. Gomez</td>
<td>Benjamin Franklin High School</td>
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<tr>
<td></td>
<td></td>
<td>PM Kraig Oramous</td>
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</table>

Overall 2nd Place Winner - energy: physical - Rachel Pizzolato - John Curtis Christian
# GNOSEF Student Successes

## 2019 LA State Science and Engineering Fair (LSEF)

### LSEF JUNIOR DIVISION CATEGORY AWARDS (12)

<table>
<thead>
<tr>
<th>Place</th>
<th>Category</th>
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<th>School</th>
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<tr>
<td>HM</td>
<td>behavioral and social sciences</td>
<td>Patricia L. Peters</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>HM</td>
<td>cellular and molecular biology</td>
<td>Amir D. Gentry</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
<tr>
<td>4th</td>
<td>environmental engineering</td>
<td>Keyuo B. Craver</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
<tr>
<td>2nd</td>
<td>engineering mechanics</td>
<td>Sebastian k. Scry</td>
<td>International School of Louisiana</td>
</tr>
<tr>
<td>4th</td>
<td>engineering mechanics</td>
<td>Grace C. Wallace</td>
<td>Christian Brothers School</td>
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<tr>
<td></td>
<td></td>
<td>Briley Pippin</td>
<td>Christian Brothers School</td>
</tr>
<tr>
<td>3rd</td>
<td>energy: physical</td>
<td>Noah W. Broussard</td>
<td>Christian Brothers School</td>
</tr>
<tr>
<td>3rd</td>
<td>microbiology</td>
<td>Benjamin T. TARAVELLA</td>
<td>John Curtis Christian</td>
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<tr>
<td>HM</td>
<td>materials science</td>
<td>Justin T. Green</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
<tr>
<td>HM</td>
<td>physics and astronomy</td>
<td>Hannah M. Jacobs</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
<tr>
<td>1st</td>
<td>plant sciences</td>
<td>Lauren Ejiaga</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
<tr>
<td>3rd</td>
<td>plant sciences</td>
<td>Michael Sam-Pang</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>HM</td>
<td>robotics and intelligent machines</td>
<td>Pitambar Guha</td>
<td>Kenner Discovery Health Sciences Academy</td>
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</table>
## GNOSEF Student Successes

### 2018 LA State Science and Engineering Fair (LSEF)

#### LSEF SENIOR DIVISION SPECIAL AWARDS (9)

<table>
<thead>
<tr>
<th>Award</th>
<th>Name (Place)</th>
<th>School</th>
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<tbody>
<tr>
<td>American Meteorological Society</td>
<td>Rachel Pizzolato</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>Louisiana Horticulture Society</td>
<td>Aniyh Jefferson (HM)</td>
<td>New Orleans Charter Science and Math High School</td>
</tr>
<tr>
<td>Louisiana Horticulture Society</td>
<td>Justin L. Unger &amp; Colton Kendrick (HM)</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>Mu Alpha Theta</td>
<td>Rachel Pizzolato</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>Naval Science Award</td>
<td>Rachel Pizzolato</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>Ricoh Sustainable Development Award</td>
<td>Alexander Walker</td>
<td>Patrick F. Taylor Science &amp; Technology Academy</td>
</tr>
<tr>
<td>Society of Women Engineers</td>
<td>Rachel Pizzolato (3rd Place)</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>U.S. Air Force</td>
<td>Rachel Pizzolato</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>U.S. Metric Association</td>
<td>Rachel Pizzolato</td>
<td>John Curtis Christian</td>
</tr>
</tbody>
</table>

#### LSEF JUNIOR DIVISION SPECIAL AWARDS (8)

<table>
<thead>
<tr>
<th>Award</th>
<th>Name (Place)</th>
<th>School</th>
</tr>
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<tbody>
<tr>
<td>Association for Women Geoscientists</td>
<td>Lauren Ejiaga</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
<tr>
<td>Broadcom MASTERS nominees</td>
<td>Michael Sam-Pang</td>
<td>John Curtis Christian</td>
</tr>
<tr>
<td>Broadcom MASTERS nominees</td>
<td>Lauren Ejiaga</td>
<td>Lake Forest Elementary Charter School</td>
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<tr>
<td>Broadcom MASTERS nominees</td>
<td>Justin T. Green</td>
<td>Lake Forest Elementary Charter School</td>
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<tr>
<td>NASA Earth System Science Award</td>
<td>Lauren Ejiaga</td>
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<td>Naval Science Award</td>
<td>Lauren Ejiaga</td>
<td>Lake Forest Elementary Charter School</td>
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<tr>
<td>Society of Women Engineers</td>
<td>Grace C. Wallace &amp; Briley Pippin (1st Place)</td>
<td>Christian Brothers School</td>
</tr>
<tr>
<td>U.S. Air Force</td>
<td>Lauren Ejiaga</td>
<td>Lake Forest Elementary Charter School</td>
</tr>
</tbody>
</table>
International Science and Engineering Fair (ISEF)
May 12 – May 17, 2019 in Phoenix, AZ
Over 1800 students from 75 countries, regions and territories

**GNOSEF**

**ISEF Finalists:**

- **Grayson Barron** - *Simple problem.....Simple Solution*
  John Curtis Christian School (teacher: Cathy Boucvalt)

- **Joaquin Gomez and Kraig Oramous** - *Implementation of Basic Machine Learning and Iterative Algorithms into a Self-Tuning PID System*
  Benjamin Franklin High School (teacher: Teresa Burchette)

- **Paean Luby** - *The Attachment Theory and Emotional Development: A Twin Study*
  Benjamin Franklin High School (teacher: Cliff Robinson)

  $1,200 SPECIAL AWARD - China Association for Science and Technology (CAST)

  Patrick F. Taylor Science & Technology Academy (teacher: Amanda Godshaw)


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**History of ISEF Expenses**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<td>Lodging</td>
<td>$3,571</td>
<td>$3,107</td>
<td>$4,298</td>
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<td>Airfare</td>
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<td>$2,604</td>
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<td>Meals / Misc</td>
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<td>$1,738</td>
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<td>ISEF Reg.</td>
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<td>$840</td>
<td>$1,085</td>
<td>$1,085</td>
<td>$1,225</td>
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<tr>
<td>(#) Cost</td>
<td>(7) $9580</td>
<td>(6) $8,289</td>
<td>(8) $10,810</td>
<td>(8) $11,504</td>
<td>(9) $12,523</td>
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</table>
Lusher senior gets $2.6M in scholarships; accepted to Harvard, Yale

By Nicole Mumphrey | May 7, 2019 at 10:43 AM CDT - Updated May 7 at 8:53 PM

NEW ORLEANS (WVUE) - A senior at Lusher Charter School has one very big decision looming: which college should she attend after getting accepted into some of the most prestigious schools in the country.

When Amaris Lewis won the grand prize award in Cellular and Molecular Biology at the Greater New Orleans Science and Engineering Fair last year, it was obvious great things were in store for her.
Five 2018 GNOSEF Wish List Items successfully implemented in 2019!

1. “Mentor Teachers” to assist teachers at schools

Budgeted $3000 for 60 hours of support, used $2473 for 50.5 hours.

Janell Simpson (board member and mentor teacher) applied for AND RECEIVED a Brown Foundation Grant that would provide even more time for “Mentor Teachers” as well as graduate student support to assist middle and high school students with their projects

- 80 hours at $50/hr for mentor teachers - $4000
- 100 hours at $25/hr for graduate student mentors - $2500

TEACHER COMMENTS:
....support was invaluable and directly related to our increasing levels of student participation in GNOSEF ... Dr. Sam Loftus, Sci High Science Fair Director

...school site-direct assistance opportunity saved me hours of back and forth emailing to fix...Our region truly has the best teacher and student support programs to help educators encourage students to participate in meaningful hands-on scientific investigations and engineering design projects...Cathy Boucvalt, John Curtis Christian Science Fair Director
2. Hire Teacher Workshop Coordinator & Session Facilitators

One-day workshop to kick off the new year, providing important information about quality projects and safe research has always been done by volunteers!

We budgeted $1,000 - facilitator ($700) and presenters ($50 each)

In the Future as part of the Brown Foundation Grant, we will provide:

**August Teacher Workshop:**
- 4 instructors at $50/hr for 5 hours - $1000
- 30 teacher stipends $25/hr for 5 hours - $3750

**Teacher Workshops during the GNOSEF:**
- 2 instructors at $50/hr for 2 hours for workshop during fair and
- 20 teacher stipends at $25/hr - $900
Five 2018 GNOSEF Wish List Items successfully implemented in 2019!

3. Increase the number in GNOSEF ISEF delegation
   • Budgeted an additional $1500 Scientific Review Committee chair to attend but was unable to.
   • Had a team of 2 among the Grand Award winners so used money to send an extra student instead.

4. Increase the Junior Division Teacher Award
   • Budgeted $1000 instead of $500
   • 4 junior division teachers each received a recognition award of $250.
5. Creation and implementation of assessment

Information regarding the impact of the GNOSEF would help with participation and funding

223 students responded to onsite survey - 58% female/40% male

Impact on Future Career in STEM: 50% indicated that as a result of their participation in GNOSEF, they had an increased interest in pursuing a career in STEM. 42% were somewhat more interested.

Enter a Future Project: 57% of respondents indicated that they would likely enter a project in a future science/engineering fair. 65% of respondents indicated that they would encourage their friends to submit a project next year.

Most Difficult Aspect of the Project: The three most difficult aspects of the project, as identified by students, were collecting data (21%), analyzing data (19%), and designing an experiment (18%). The next most difficult aspect was preparing the project board (17%). Other components: other (14%) and finding a question (11%).
<table>
<thead>
<tr>
<th>Category</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ Teacher Resources - Workshop/Kickoff/Mentors</td>
<td>$294</td>
<td>$345</td>
<td>$3,876</td>
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<tr>
<td>§ Awards</td>
<td></td>
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<tr>
<td>• Category Cash Awards</td>
<td>$4,550</td>
<td>$4,315</td>
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<tr>
<td>• Teacher Recognition</td>
<td>$500</td>
<td>$500</td>
<td>$1,000</td>
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<td>• Medals and Plaques</td>
<td>$841</td>
<td>$858</td>
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<td>• Twitter Contest Prizes</td>
<td>$146</td>
<td>$150</td>
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<tr>
<td>Sub-Total</td>
<td>$5,891</td>
<td>$5,824</td>
<td>$6,766</td>
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<tr>
<td>§ Operating Expenses</td>
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<tr>
<td>• Food - Judges and Volunteers</td>
<td>$3,679</td>
<td>$5,196</td>
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<tr>
<td>• Facility Costs (includes table rental)</td>
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<tr>
<td>Rental (includes table set up in 2018)</td>
<td>$3,500</td>
<td>$2,600</td>
<td>$2,960</td>
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<td>Tables/Chairs/Pipe&amp;Drape</td>
<td>$4,647</td>
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<td>Table covers and skirts</td>
<td>$600</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>• Public Relations - Ann Wills</td>
<td>$5,000</td>
<td>$5,000</td>
<td>$5,000</td>
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<tr>
<td>• Supplies and postage</td>
<td>$311</td>
<td>$341</td>
<td>$616</td>
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<tr>
<td>• Supplies purchased with reclaimed Amazon Gift Cards</td>
<td>$573</td>
<td>$346</td>
<td>$0</td>
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<tr>
<td>• Operating Costs -fair affl., Sec. of State, tax prep.; insurance (2018)</td>
<td>$3,358</td>
<td>$3,977</td>
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<tr>
<td>• Assessment Survey and Analysis</td>
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<td>Sub-Total</td>
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<td>$19,995</td>
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<td>§ International</td>
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<td>• Registration, travel, housing, food, misc.</td>
<td>$10,810</td>
<td>$11,504</td>
<td>$12,523</td>
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<td>TOTAL EXPENSES</td>
<td>$38,663</td>
<td>$37,668</td>
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<td>INCOME (pledged)</td>
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<td>• Unrestricted Donations</td>
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<td>• Reclaimed Amazon Gift Cards</td>
<td>$754</td>
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<td>TOTAL Unrestricted Income</td>
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<td>Unrestricted Income – Expenses</td>
<td>$8,830</td>
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<tr>
<td>• Dedicated Awards Pledged (scholarship reimb’s may not be in 2019)</td>
<td>$33,039</td>
<td>$31,907</td>
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<td>TOTAL REVENUE (pledged)</td>
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<td>Whitney Acct Balance</td>
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<td>Ameritrade Account</td>
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<td>Tulane K-12 STEM Outreach Account</td>
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<tr>
<td>Reclaimed Amazon Gift Card Balance</td>
<td>*$818.84</td>
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<tr>
<td>Remaining Anticipated Funds (pledged funds and award/mini-grant reimbursements)</td>
<td>$12,517.51</td>
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<tr>
<td>Committed Patrick F. Taylor Awards</td>
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<tr>
<td>Committed Habeeb/Entergy/Brown Scholarships</td>
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<td>Remaining Estimated Expenditures (incl. checks not cleared)</td>
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<tr>
<td>Total Unrestricted Funds Available</td>
<td><strong>$94,676.35</strong></td>
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</tbody>
</table>

*Amazon Gift Cards – 18 month redemption period (included $655 to be reclaimed from 2017 awards)*
Further increase the number in the GNOSEF ISEF delegation (~$1,500 per person)

- Currently send 4 Senior Division Grand Award winners, 2 teachers, Judge Advisor, Scientific Review Committee Chair, 1 “Adult-In-Charge”
- Because of the impact on participating teachers, we would like to send all 4 teachers of the Grand Award winners, adding 2 more to the current budget (+$3,000)

Junior Division School Grant Award

- Similar to the Patrick F Taylor School Grant Award which has annually provided $10,000 to split between the high schools that participate with 10 or more projects, we would like to offer $5,000 to middle schools.

Stipends for School Science Fair Directors who host school science fairs and participate in the GNOSEF
(currently just an idea...)

Paid Executive Director position
(to evolve, we need to start thinking about this!)
May 9th Board Meeting Highlights:
- Elected 2 new board members, 1 new advisory council member & officers
- Discussed and approved budget
- Discussed new formalized committee structure (non-GNOSEF board members are welcome to serve on committees)
- 2019 GNOSEF Debrief

Summer meeting of the board on Tuesday, July 23rd from 3:30-4:30pm to discuss:
- Governance:
  - Formalize committee structure and membership
  - Propose bylaws
- Management:
  - GNOSEF Wish List priorities
  - Review GNOSEF project participation limits
  - Continue to identify and resolve obstacles to participation
  - Discuss further strategy for recruiting new schools
GNOSEF Strengths
(CONTRIBUTING TO THE SUCCESS OF THE PROGRAM)

- Over $60,000 provided in recognition of student achievement and teacher/mentor contributions (ie. cash, trips, prizes, grants)
- Continued Financial Support from Dedicated Individuals, Corporate and Foundation Sponsors!
- Dedicated Scientific Review Committee working year-round
- Annual Teacher Workshop plus teacher support year-round, which now includes experienced “Teacher Mentors”
- Highly Qualified Judges
- Dedicated Fair Volunteers and Planning Committee
2019-20 Proposed Calendar

- **Aug/Sept TBD** Teacher Workshop and Kickoff
- **October 1** School Affiliation Forms Due
- **October 8** Submit Project for Pre-Approval to SRC
- **December 2** All Pre-Approvals Must be Completed
- **January 15** Project Registration/Document Deadline
- **February 1** All Project Documents Must be Approved
- **Feb 10-13** GNOSEF (Judging on Feb. 11 & 12)
- **March TBD** Registration Deadline for State Fair
- **March 16-18** LA Science and Engineering Fair
- **May 12-17** International Science and Engr. Fair (ISEF) Anaheim, CA