

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



*2019 Greater New Orleans Science and Engineering Fair at Tulane University*

## 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.

# 2019-20 GNOSEF Board of Directors

	First Name	Last Name	Board Involvement	Affiliation
1	Harriet	Aguiar-Netto	Programs-VolCoord	Women for a Better Louisiana
2	Nick	Altiero	President-StratPlanning	Tulane University - retired
3	Mike	Benbow	Strategic Planning	Benbow and Associates
4	Harry	Clark	Programs	Jesuit High School - retired
5	Scott	Edwards	Programs	LSUHSC
6	Nancy	Hopkins	Programs-Judge Advisor	Tulane University - retired
7	Barbara	LaNasa	Programs	Women for a Better Louisiana
8	Lorraine	McGinley	Treasurer-Programs	Tulane University - retired
9	Nicole	Moody	Secretary-Programs	Tulane University
10	Lana	Nitti	Programs	Tulane University
11	Annette	Oertling	Fair Director	Tulane University - retired
12	Barbara	Paillet	Strategic Planning	Bruce J. Heim Foundation
13	Arman	Sadeghpour	Strategic Planning	Tulane University, Theodent
14	Michelle	Sanchez	Fair Director	Tulane University
15	Britton	Sanderford	Strategic Planning	Axon Corp., UNO Foundation
16	Danielle	Scanlon	Programs	Tulane University
17	Janell	Simpson	Programs-SRC Member	Patrick F Taylor School - retired
18	Cathie	Smith	Programs-SafetyJdgCoord	Jefferson Parish Public Schools - retired
19	Erica	Smith	Programs-Judge Coordinator	Tulane University
20	Andrea	Walker	Programs-SRC Chair	The GNO STEM Initiative - retired

# 2019-20 GNOSEF Advisory Council

	First Name	Last Name	Affiliation
1	Roberto	Diaz del Valle	A&B Errand Services, LLC
2	Norma Jean	Mattei	University of New Orleans
3	Steve	Johnson	University of New Orleans
4	Kim	Jovanovich	University of New Orleans

# Thank You to Our 2019 Sponsors!

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

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## **H. Britton Sanderford (2012-2019)**

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.

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

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## **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.

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## **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.

### **American Petroleum Institute-Delta Chapter (2012-2019)**



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**

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*\* **Blue Ribbon Sponsor** (\$500-\$999) \**

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**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)**

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

**Harriet Aguiar-Netto (2010-2018)**

Individual Sponsor

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*\* **Honorable Mention** (\$25-\$99) \**

**American Welding Society: N.O. Section (2008-2018)**

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.

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*\* **Community Supporters** \**

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**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 18<sup>th</sup>-21<sup>st</sup>, 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 18<sup>th</sup>-21<sup>st</sup>, 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.**  
**Paeen 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)

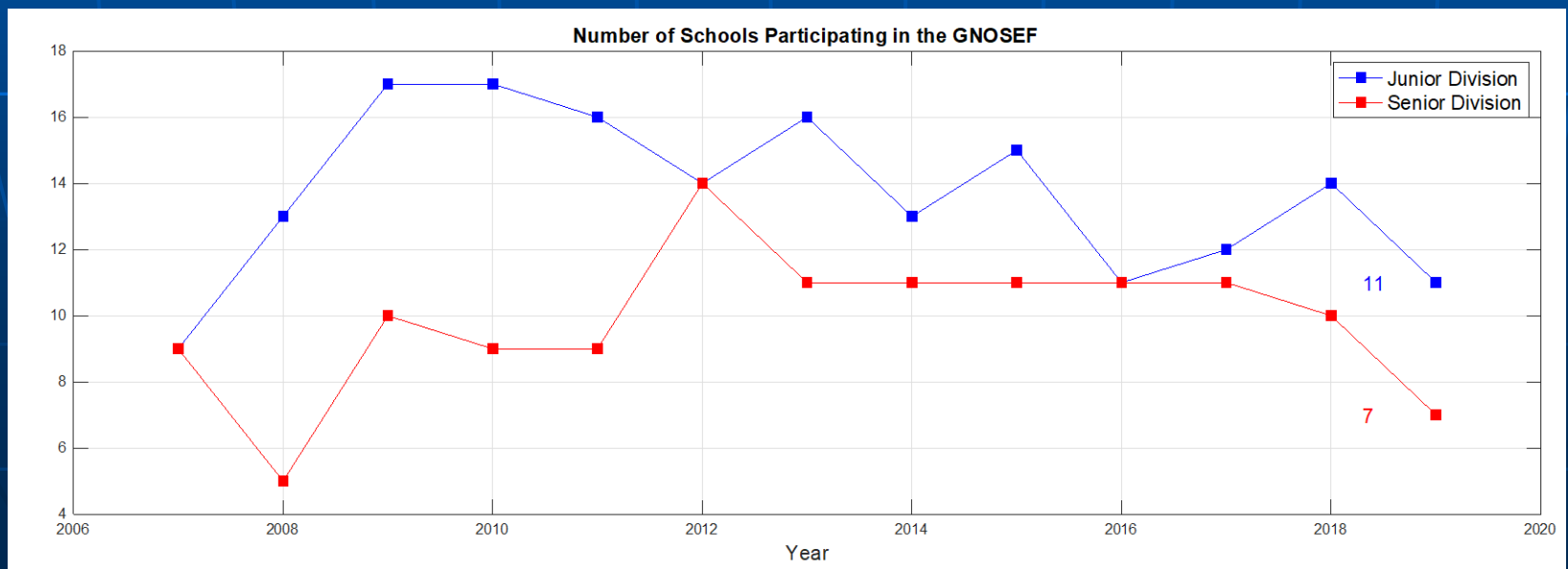
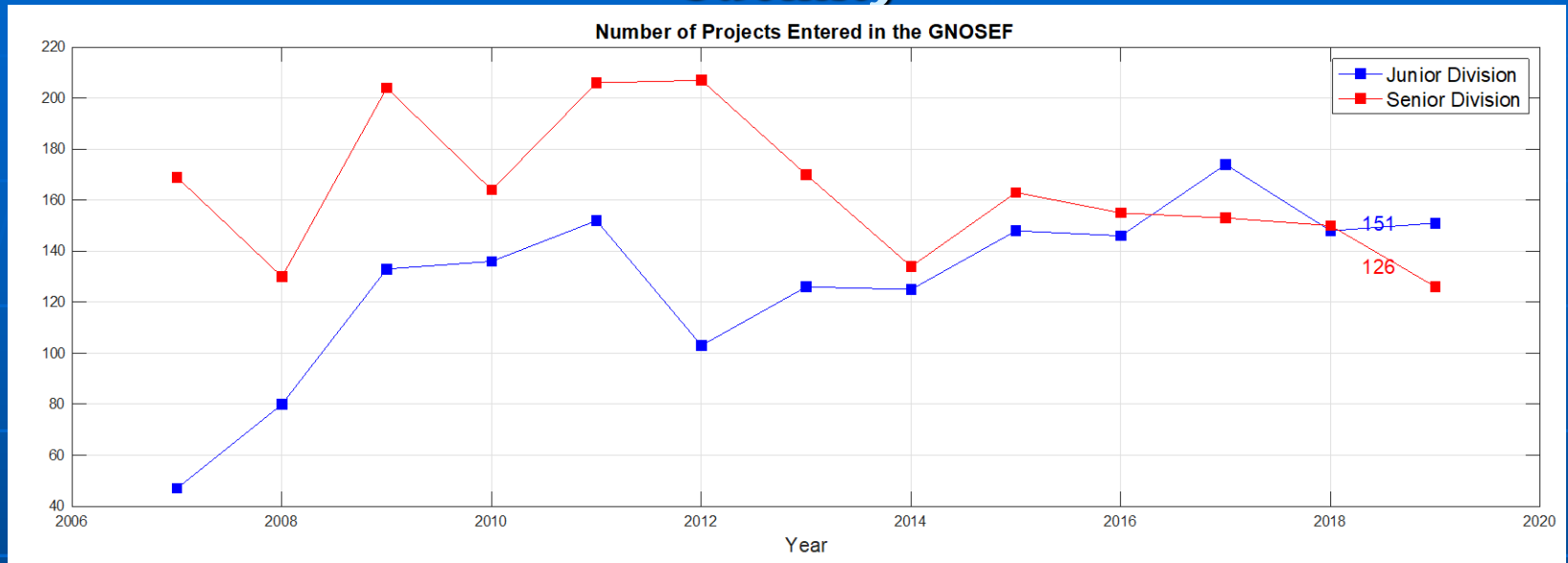
Benjamin Franklin High School  
Edna Karr High School  
Holy Cross School \*  
Isidore Newman High School  
John Curtis Christian \*

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

# 2019 GNOSEF AWARDS

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.

	<u>Junior Division</u>	<u>Senior Division</u>
1. First Place	\$50 and medal	\$75 and medal
2. Second Place	\$30 and medal	\$50 and medal
3. Third Place	\$15 and medal	\$25 and medal
4. Honorable Mention	\$10	\$15



1<sup>st</sup> Place Junior Division Winners



1<sup>st</sup> Place Senior Division Winners

1<sup>ST</sup> and 2<sup>nd</sup> 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**

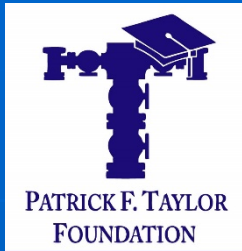
Patrick F. Taylor Sci & Tech Academy (retired)

**Ms. Amy Mallozzi**

New Orleans Charter Math and Science High School

**Ms. Cathy Boucvalt**

John Curtis Christian



# Patrick F. Taylor Foundation Awards

(Senior Division)

*(established 2008)*

## 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.**

- **\$1,600**



### **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

# **The “Aspiring Researcher” Scholarship presented by the Emmy Noether Awards**

(Senior Division)

*(established 2019)*

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

# Neuroscience/Machine Learnings Scholarship

(Senior Division)

**(established  
2015)**

**sponsored by Mr. H. Britton Sanderford**

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.



## Recipients

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

(runner-ups)  
**Kraig Oramous and  
Joaquin Gomez**  
Benjamin Franklin High School

# Tulane Science Scholars Program Scholarship

*sponsored by Tulane School of Science and Engineering  
with support from the Bruce J. Heim Foundation* **(established 2015)**

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 Paillet, The Bruce J. Heim Foundation

# Entergy Corporation “Powering the Future” Scholarship Award



(Senior Division)

*(established 2017)*

**\$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**



# **Albert F.W. Habeeb, M.D.**

## **Scholarship Award**

(Senior Division)

*(established 2018)*

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**



# Dorothy Van Lue Habeeb Scholarship Award

(Senior Division)

*(established 2018)*

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.

# **2018-2019 GNOSEF Mini-Grants**

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)

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

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)

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

# GNOSEF Student Successes

## 2018 LA State Science and Engineering Fair (LSEF) LSEF SENIOR DIVISION SPECIAL AWARDS (9)

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

## LSEF JUNIOR DIVISION SPECIAL AWARDS (8)

Award	Name (Place)	School
Association for Women Geoscientists	Lauren Ejiaga	Lake Forest Elementary Charter School
Broadcom MASTERS nominees	Michael Sam-Pang	John Curtis Christian
Broadcom MASTERS nominees	Lauren Ejiaga	Lake Forest Elementary Charter School
Broadcom MASTERS nominees	Justin T. Green	Lake Forest Elementary Charter School
NASA Earth System Science Award	Lauren Ejiaga	Lake Forest Elementary Charter School
Naval Science Award	Lauren Ejiaga	Lake Forest Elementary Charter School
Society of Women Engineers	Grace C. Wallace & Briley Pippin (1st Place)	Christian Brothers School
U.S. Air Force	Lauren Ejiaga	Lake Forest Elementary Charter School

# 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)**

**Alexander Walker** - *Nutrient Manipulation in C. moewusii to Activate [Fe-Fe] Hydrogenase Reserves: A Continued Study in Increasing the Cost-Efficiency of Green Hydrogen Fuel Production*  
Patrick F. Taylor Science & Technology Academy (teacher: Amanda Godshaw)

**LSEF FINALIST- Rachel Pizzolato** - *Exploring the Effect of Vortex Generators on Boundary Layer Separation* - John Curtis Christian School (teacher: Cathy Boucvalt)

### History of ISEF Expenses

	<u>Pittsburg 2015</u>	<u>Phoenix 2016</u>	<u>LA 2017</u>	<u>Pittsburg 2018</u>	<u>Phoenix 2019</u>
Lodging	\$3,571	\$3,107	\$4,298	\$4,195	\$4,812
Airfare	\$3,104	\$2,604	\$3,622	\$4,249	\$4,033
Meals / Misc	\$1,905.00	\$1,738	\$1,805	\$1,975	\$2,291
ISEF Reg.	\$1,000	\$840	\$1,085	\$1,085	\$1,225
(#) Cost	(7) \$9580	(6) \$8,289	(8) \$10,810	(8) \$11,504	(9) \$12,523

# A GNOSEF Student Success

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WATCH LIVE AT 10 A.M. / Officials announce 2019 hurricane season predictions

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## Lusher senior gets \$2.6M in scholarships; accepted to Harvard, Yale



Lusher Charter School Senior Amaris Lewis

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**

# Five 2018 GNOSEF Wish List Items successfully implemented in 2019!

## 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.

# Five 2018 GNOSEF Wish List Items successfully implemented in 2019!

## 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%).

# GNOSEF, Inc. EXPENSES AND INCOME

	<u>2017</u>	<u>2018</u>	<u>2019</u>
<b>EXPENSES</b>			
<b>\$ Teacher Resources - Workshop/Kickoff/Mentors</b>	<b>\$294</b>	<b>\$345</b>	<b>\$3,876</b>
<b>\$ Awards</b>			
• Category Cash Awards	\$4,550	\$4,315	\$4,550
• Teacher Recognition	\$500	\$500	\$1,000
• Medals and Plaques	\$841	\$858	\$1,123
• Twitter Contest Prizes	\$146	\$150	\$94
<b>Sub-Total</b>	<b>\$5,891</b>	<b>\$5,824</b>	<b>\$6,766</b>
<b>\$ Operating Expenses</b>			
• Food - Judges and Volunteers	\$3,679	\$5,196	\$6,933
• Facility Costs (includes table rental)			
Rental (includes table set up in 2018)	\$3,500	\$2,600	\$2,960
Tables/Chairs/Pipe&Drape	\$4,647	\$2,536	\$2,524
Table covers and skirts	\$600	\$0	\$0
• Public Relations - Ann Wills	\$5,000	\$5,000	\$5,000
• Supplies and postage	\$311	\$341	\$616
• Supplies purchased with reclaimed Amazon Gift Cards	\$573	\$346	\$0
• Operating Costs -fair affl., Sec. of State, tax prep.; insurance (2018)	\$3,358	\$3,977	\$4,030
• Assessment Survey and Analysis			\$200
<b>Sub-Total</b>	<b>\$21,668</b>	<b>\$19,995</b>	<b>\$22,263</b>
<b>\$ International</b>			
• Registration, travel, housing, food, misc.	\$10,810	\$11,504	\$12,523
<b>TOTAL EXPENSES</b>	<b>\$38,663</b>	<b>\$37,668</b>	<b>\$45,428</b>
<b>INCOME (pledged)</b>			
• Unrestricted Donations	\$47,493	\$50,006	\$55,397
• Reclaimed Amazon Gift Cards		\$754	\$655
<b>TOTAL Unrestricted Income</b>		<b>\$50,760</b>	<b>\$56,052</b>
Unrestricted Income – Expenses	\$8,830	\$12,492	\$10,624
• <i>Dedicated Awards Pledged (scholarship reimb's may not be in 2019)</i>	<i>\$33,039</i>	<i>\$31,907</i>	<i>\$31,667</i>
<b><i>TOTAL REVENUE (pledged)</i></b>	<b><i>\$80,532</i></b>	<b><i>\$82,667</i></b>	<b><i>\$87,718</i></b>

## Greater New Orleans Science Fair, Inc.

### FINANCIAL STATUS

	<b>April 30, 2019</b>
Whitney Acct Balance	\$35,077.25
Ameritrade Account	\$93,974.43
Tulane K-12 STEM Outreach Account	\$4,500
Reclaimed Amazon Gift Card Balance	*\$818.84
Remaining Anticipated Funds (pledged funds and award/mini-grant reimbursements)	\$12,517.51
Committed Patrick F. Taylor Awards	\$17,496.00
Committed Habeeb/Entergy/Brown Scholarships	\$7,500.00
Remaining Estimated Expenditures (incl. checks not cleared)	\$22,715.68
Total Unrestricted Funds Available	<b><u>\$94,676.35</u></b>
<i>*Amazon Gift Cards – 18 month redemption period (included \$655 to be reclaimed from 2017 awards)</i>	

# GNOSEF Future Wish List

- 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!)

# Current & Future Business

- May 9<sup>th</sup> 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 23<sup>rd</sup> 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