

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

June 20, 2024

MICHELLE SANCHEZ, PH.D., FAIR DIRECTOR AND  
ANNETTE OERTLING, PH.D., PRESIDENT



# A Year in Review

- ▶ GNOSEF (Regional Fair)
- ▶ Grants and Professional Development
- ▶ LSEF (Louisiana Science and Engineering Fair)
- ▶ ISEF (International Fair)
- ▶ Surveys and PR Report
- ▶ Financial Report
- ▶ GNOSEF Wish List
- ▶ Board Business
- ▶ GNOSEF Strengths
- ▶ Calendar for 2024-25





# 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.

# 2023-24 Board of Directors

	First Name	Last Name	Affiliation
1	Harriet	Aguiar-Netto	Women for a Better Louisiana
2	Nick	Altiero	Tulane University-retired
3	Cathy	Boucvalt	John Curtis Christian - retired
4	Larry	Dequay	John C. Stennis Space Center/NASA/AIAA
5	Scott	Edwards	LSUHSC
6	Leo	Holzenthal	Benbow and Associates
7	Nancy	Hopkins	Tulane University-retired
8	Barbara	LaNasa	Women for a Better Louisiana
9	Lorraine	McGinley	Tulane University

	First Name	Last Name	Affiliation
10	Annette	Oertling	Tulane University - retired
11	Barbara	Paillet	Bruce J. Heim Foundation
12	Michelle	Sanchez	Tulane University
13	Arman	Sadeghpour	Theodent/Tulane University
14	Britton	Sanderford	Axon Corp., UNO Foundation
15	Danielle	Scanlon	Tulane University
16	Janell	Simpson	Patrick F Taylor School - retired
17	Erica	Smith	Tulane University
18	Andrea	Walker	GNOSTEM Initiative-retired



# Thank You to Our 2024 Sponsors!

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

## **H. Britton Sanderford (2012-2024)**

Mr. H. Britton Sanderford also provides the James de la Houssaye Mentor Awards recognizing high school mentor(s) for their educational and inspirational work with students, and a Neuroscience / Machine Learnings Scholarship for excellent work by a student researcher.

## **Entergy Corporation (2017-2024)**



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

## **Patrick F. Taylor Foundation (2007-2024)**



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.

## **Paul and Patty Habeeb Muehlemann Sustainability Sponsorship (2018-2024)**

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.

# Thank You to Our 2024 Sponsors!

*\* Silver Sponsorship (\$2,500-\$7,499) \**

## **The Joe W. and Dorothy Dorsett Brown Foundation (2019-2024)**



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.

## **Broadcom Foundation (2024)**



Broadcom Foundation also provides the Broadcom Coding with Commitment™ award, which recognizes students in middle school who combine STEM learning with coding to solve a community problem they care about in their neighborhood, region, or on planet Earth that aligns with the 17 Sustainable Development Goals of the United Nations.

## **BW<sup>2</sup> (2019-2024)**

BW<sup>2</sup> also provides the GNOSEF Star Teacher Awards – this award is presented to teachers who strove to participate in the GNOSEF by going above and beyond making sure to follow ISEF's rules and learn GNOSEF guidelines.

## **Greater New Orleans Region One Center for STEM (GNOrocs) (2024)**





# Thank You to Our 2024 Sponsors!

*\* Bronze Sponsorship (\$1,000-\$2,499) \**

## **American Petroleum Institute-Delta Chapter (2012-2024)**



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.

## **Association for Materials Protection and Performance (AMPP) Southeast Louisiana Chapter (formerly NACE New Orleans) (2008-2024)**



The Southeast Louisiana Chapter of the Association for Materials Protection and Performance 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.

## **Laitram Corporation (2017-2021,2023-2024)**



## **Leo Holzenthal<sup>†</sup> (2024)**

## **M.S. Benbow and Associates (2024)**



M.S. Benbow and Associates also provides a \$100 first prize and a \$75 second prize for outstanding Senior Division projects in the field of Electrical Engineering.

## **Society of Petroleum Engineers – Delta Chapter (2012-2024)**



# Thank You to Our 2024 Sponsors!

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

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**American Society of Civil Engineers – New Orleans Branch (Local) (2018-2024)**

The American Society of Civil Engineers also provides a cash award to a student and his/her sponsoring teacher to recognize an Outstanding Civil Engineering project.

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

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**The Bruce J. Heim Foundation (2010-2024)**

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.

**Dr. Harriet Aguiar-Netto (2010-2024)**



# Thank You to Our 2024 Sponsors!

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## *\* Yellow Ribbon Sponsor (\$100-\$249) \**

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Annette Oertling<sup>1</sup>, Harry Clark<sup>1</sup>

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## *\* Honorable Mention (Up to \$99) \**

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### **American Welding Society: N.O. Section (2008-2024)**

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.

**Barbara LaNasa<sup>1</sup>, Justine Aguiar<sup>1</sup>, Norma Jean Mattei<sup>1</sup>,  
Colleen Yates<sup>1</sup>, Anonymous<sup>1</sup>**

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## *\* School Grants and Scholarships \* (not listed above)*

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### **Greater New Orleans Science and Engineering Fair Middle School Award (2022-2024)**

Sponsored by Tom and Jean Brett

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## *\* Community Supporters \**

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**Tulane Center for K-12 STEM Education**

**Loyola University**

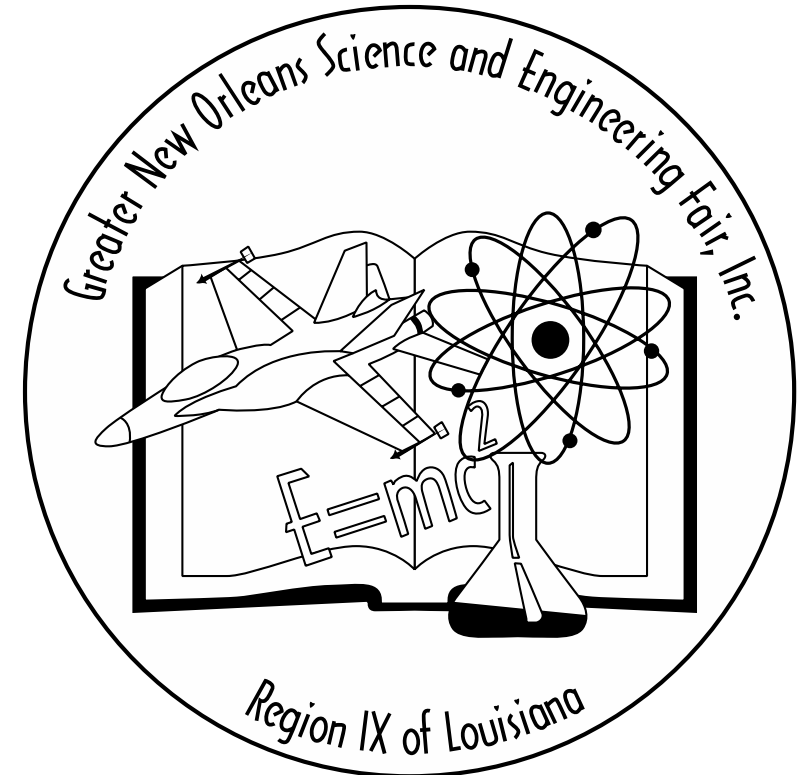
**Women for a Better Louisiana**

**STEM Library Lab**

# GNOSEF – By the Numbers

February 26<sup>th</sup>-March 3<sup>rd</sup>, 2024

- ▶ **274** middle and high school students
- ▶ **222** science and engineering fair projects
- ▶ **150** category winners
- ▶ **60** projects participating in the LA Science and Engineering Fair
- ▶ **59** junior category judges
- ▶ **47** senior category judges
- ▶ **30** categories
- ▶ **28** GNOSEF sponsors
- ▶ **27** local organizations providing student and teacher awards
- ▶ **23** dedicated teachers
- ▶ **18** national organizations providing student awards
- ▶ **17** local schools
- ▶ **14** safety and display judges
- ▶ **12** Grand Award judges
- ▶ **11** Tulane undergraduate volunteers
- ▶ **10** graduate student mentors
- ▶ **10** devoted GNOSEF coordinators
- ▶ **7** Grand Award winners
- ▶ **4** projects participating in the International Science and Engineering Fair!
- ▶ **1** AMAZING GNOSEF!





# GNOSEF – Junior Division

February 26<sup>th</sup>-March 3<sup>rd</sup>, 2024



11 Junior Division Schools Participated

- Academy of the Sacred Heart
- Alice Harte Charter School
- Holy Cross School \*
- International School of Louisiana – Camp
- Islamic School of Greater New Orleans
- Jesuit High School
- John Curtis Christian \*
- Lake Forest Elementary Charter School
- Patrick F. Taylor Science & Technology Academy \*
- St. Catherine of Siena
- Trinity Episcopal School



Junior Division Grand Award Winners

- Caleb Colbert – Lake Forest Elementary Charter School (right)
- Mario Myles – Lake Forest Elementary Charter School (left)
- Also pictured (left) – Interim Dean Leonard Kahn, Loyola School of Arts and Sciences and Associate Dean Beth Wee, Tulane School of Science and Engineering





# GNOSEF – Senior Division

February 26<sup>th</sup>-March 3<sup>rd</sup>, 2024



9 Senior Division Schools Participated

- Edna Karr High School
- Haynes Academy for Advanced Studies
- Holy Cross School \*
- Isidore Newman School
- John Curtis Christian \*
- Kenner Discovery Health Sciences High School
- Patrick F. Taylor Science & Technology Academy \*
- Sci High
- The Willow School

Senior  
Division

1st Place  
Winners



Senior Division Grand Award Winners

- Vaishnavi Kumbala – Haynes Academy for Advanced Studies (left)
- Stella Bourke – The Willow School (2nd from left)
- Jackson Dirks and Jai Bansal – Isidore Newman School (middle)
- Quang Tran – Patrick F. Taylor Science & Technology Academy (right)
- Cole Davis – Patrick F. Taylor Science & Technology Academy (not pictured)
- Also pictured (left) – Interim Dean Leonard Kahn, Loyola School of Arts and Sciences and Associate Dean Beth Wee, Tulane School of Science and Engineering
- Also pictured (right) – Dr. David Kern, Isidore Newman School and Cheryl Bordelon, Patrick F. Taylor Science & Technology Academy

Senior  
Division

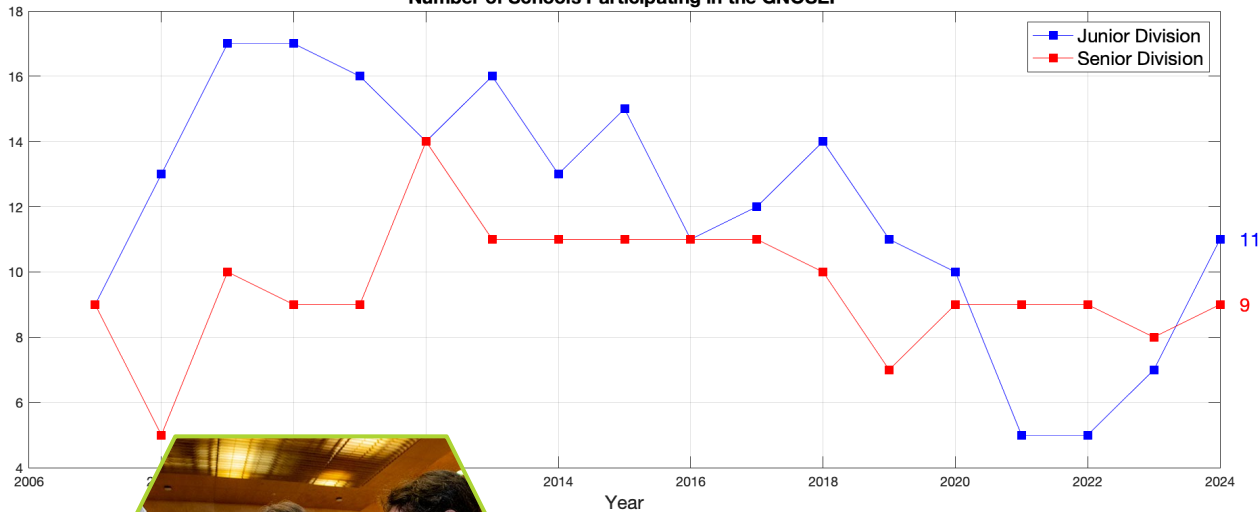
Grand Award  
Winners



# Participation in GNOSEF since 2007

(Limited by Number of Projects Per Category a School can Submit)

Number of Schools Participating in the GNOSEF

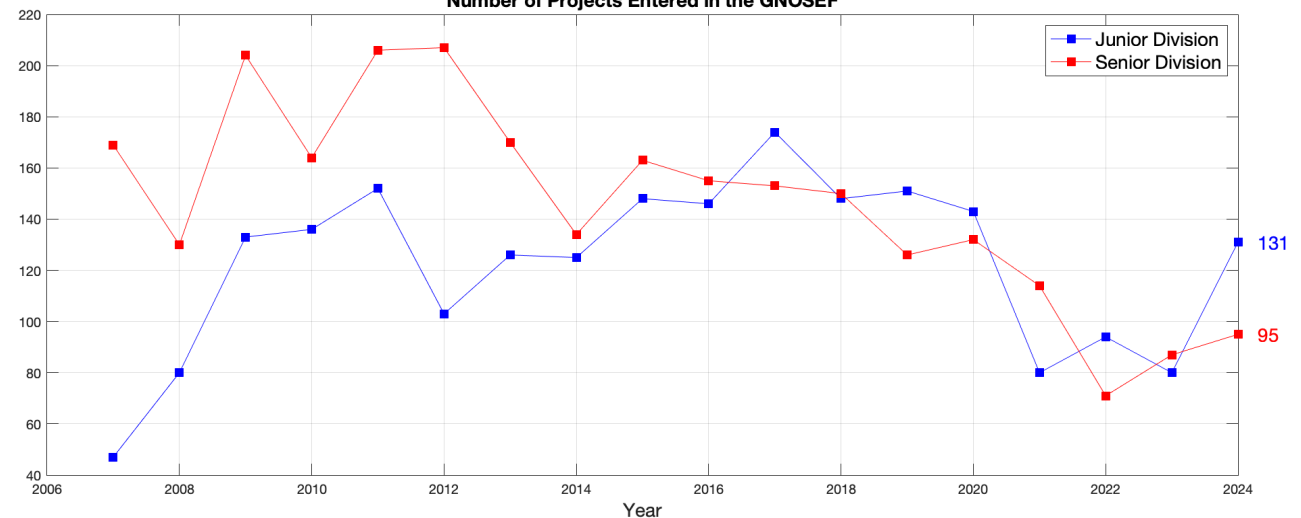


**274 Students**

- 167 Junior Division Students
- 107 Senior Division Students



Number of Projects Entered in the GNOSEF



# 2024 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 **16 Senior Division** and **14 Junior Division** categories.
  - ▶ Awards are given by the GNOSEF in each category.
- ▶ **1st and 2nd place winners** in both the junior and senior divisions were certified for entry in the 2024 Louisiana Science and Engineering Fair (LSEF) at LSU this year!





# James de la Houssaye Mentor Award

## Senior Division

Sponsored by Mr. H. Britton Sanderford • Established 2015

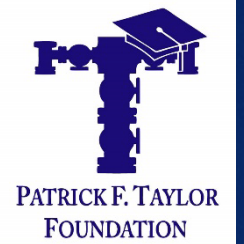
- ▶ **Objective:** Recognize a high school mentor for their educational and inspirational work with students pursuing STEM inquiry.
- ▶ **2024 Awards**
  - ▶ Due to quality of student nominations, one 1<sup>st</sup> place \$1500 award and one 2<sup>nd</sup> place \$500 award were given.
  - ▶ **1<sup>st</sup> Place – Dr. Katherine Schilling - Holy Cross School (right)**
  - ▶ **2<sup>nd</sup> Place – Sheila Lumod - Edna Karr High School (left)**



# Patrick F. Taylor School Grants

## Senior Division

Sponsored by Patrick F. Taylor Foundation • Established 2008



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

### ► 2024 Awards

- \$10,000 materials and field trip grant divided among eligible high schools.
- **\$2,000 grants** to five school winners in the senior division
  - Edna Karr High School
  - Holy Cross School
  - Isidore Newman School
  - Kenner Discovery Health Sciences High School
  - Patrick F. Taylor Science and Technology Academy





# GNOSEF Middle School Grants

## Junior Division

Sponsored by Tom and Jean Brett • Established 2022

- ▶ **Objective:** Provide incentive to increase student interest, enrollment, and performance in math and science courses through participation in the GNOSEF.
- ▶ **2024 Awards**
  - ▶ \$7,500 materials and field trip grant divided among eligible middle schools.
  - ▶ **\$1,875 grants** to four school winners in the junior division
    - ▶ Holy Cross School
    - ▶ Lake Forest Elementary Charter School
    - ▶ St. Catherine of Siena
    - ▶ Trinity Episcopal School





# Tulane Science Scholars Program Scholarship

## Senior Division

Sponsored by Tulane Center for K-12 STEM Education 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.
- ▶ **\$5,595** summer for-credit scholarship for in-person residential experience was provided to two students
- ▶ **2024 Award Recipients**
  - ▶ **Noor Farhoud – Patrick F. Taylor Science & Technology Academy**
  - ▶ **Keith Thibodaux – Patrick F. Taylor Science & Technology Academy**
  - ▶ Also pictured – Dr. Michelle Sanchez, GNOSEF Director

the **Bruce J. Heim**  
FOUNDATION

**TULANE**  
CENTER FOR  
**K-12 STEM**  
EDUCATION



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

## Senior Division

Sponsored by The Joe W. and Dorothy Dorsett Brown Foundation • Established 2019



- ▶ A **\$2,500 undergraduate scholarship** is awarded to a female high school student who demonstrates passion and promise for scientific research.
- ▶ The scholarship is presented upon receipt of an acceptance letter into a college of their choice.
- ▶ **2024 Award Recipient**
  - ▶ **Christiana Le – Patrick F. Taylor Science & Technology Academy**

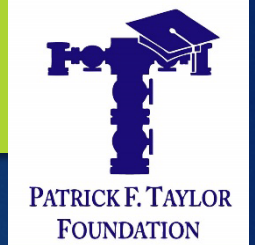




# Patrick F. Taylor School Scholarship Awards

## Senior Division

Sponsored by Patrick F. Taylor Foundation • Established 2008



- ▶ All five 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.

### ▶ 2024 Awards

- ▶ **Vaishnavi Kumbala – Haynes Academy for Advanced Studies**
- ▶ **Stella Bourke – The Willow School**
- ▶ **Jackson Dirks – Isidore Newman School**
- ▶ **Jai Bansal – Isidore Newman School**
- ▶ **Quang Tran – Patrick F. Taylor Science & Technology Academy**

- ▶ Also pictured – David Kern, Isidore Newman School, Cheryl Bordelon, Patrick F. Taylor Science & Technology Academy





# Neuroscience/Machine Learnings Scholarship

## Senior Division

Sponsored by Mr. H. Britton Sanderford • Established 2015

- ▶ 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.
- ▶ This **\$500 scholarship** is presented upon receipt of an acceptance letter into a college of their choice.
- ▶ **2024 Award Recipients** (Team Project)
  - ▶ **Jai Bansal** (left) & **Jackson Dirks** (right) – **Isidore Newman School**



# Albert F.W. Habeeb, M.D. and Dorothy Van Lue Habeeb Scholarship Awards

## Senior Division

Sponsored by Patty Habeeb Muehleman • 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.
- ▶ **2024 Award Recipient**
  - ▶ **Vaishnavi Kumbala – Haynes Academy for Advanced Studies (left)**
- ▶ 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.
- ▶ **2024 Award Recipient**
  - ▶ **Edwin Salisbury – Isidore Newman (right)**





# Entergy Corporation “Powering the Future” Scholarship Award

Senior Division

Sponsored by Entergy • Established 2017



- ▶ A **\$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.
- ▶ **2024 Awards**
  - ▶ **Staicy Triminio – Sci High**



# GNOSEF Teacher/Mentor Awards

## Junior Division

- ▶ Presented to teacher/mentors who have gone the extra mile to coordinate many students' successful competition in the GNOSEF.
- ▶ **2024 Award Recipients**
  - ▶ Cheryl Bordelon – Patrick F. Taylor Science & Technology Academy
  - ▶ Marla Watts – Lake Forest Elementary
  - ▶ Sharika Hagan – Lake Forest Elementary
  - ▶ Tara Lavender – Holy Cross School





# GNOSEF Star Teacher Awards

## Both Divisions

Sponsored by BW<sup>2</sup> • Established 2021

- ▶ Presented to teachers who strove to participate in the GNOSEF by going above and beyond making sure to follow ISEF's rules and learn GNOSEF guidelines.
- ▶ **2024 Junior Division Award Recipients (top)**
  - ▶ Sean Murphy – Trinity Episcopal School
  - ▶ Gretchen Treadway – St. Catherine of Siena Catholic School
  - ▶ Ceci Foster – Trinity Episcopal School
  - ▶ Anna Haddow – International School of Louisiana – Camp
- ▶ **2024 Senior Division Award Recipients (bottom)**
  - ▶ Sheila Lumod – Edna Karr High School
  - ▶ Dr. Katherine Schilling - Holy Cross School





# GNOSEF Volunteer of the Year

Sponsored by GNOSEF • Established 2020

- ▶ Presented to the GNOSEF volunteer who goes above and beyond to empower youth to pursue scientific inquiry and engineering design.
- ▶ **2024 Award Recipient**
  - ▶ **Dr. Nancy Hopkins – longtime Judge Advisor**
    - ▶ Also pictured – Dr. Michelle Sanchez, GNOSEF Director and Dr. Erica Smith, GNOSEF Judge Coordinator





# Additional Local Special Awards



American Society of Naval Engineers

American Institute of Aeronautics and Astronautics – Greater New Orleans Section

American Institute of Chemical Engineers – New Orleans Section

American Petroleum Institute (API) Delta Chapter

**American Society of Civil Engineers – N.O. Branch**

American Society of Naval Engineers

**American Welding Society – New Orleans Section**

**Association for Materials Protection and Performance (AMPP) Southeast Chapter (formerly NACE New Orleans)**

Biophysical Society

**Bruce J. Heim Foundation**

Community Leader, Presented by Ochsner Health

Greater New Orleans STEM Initiative

M.S. Benbow & Associates

MENSA – (The High IQ Society), N.O. Chapter

Structural Engineering Institute of the American Society of Civil Engineers-N.O. Branch

Tulane Brain Institute Award

U.S. Department of Agriculture

**Women for a Better Louisiana**

American Institute of  
Aeronautics and  
Astronautics - GNO Section



Tulane Brain Institute  
Award



American Welding  
Society – New  
Orleans Section

# Additional National Special Awards

American Psychological Association  
ASM Materials Education Foundation: In Partnership with Association for Materials Protection and Performance (AMPP)  
Southeast Chapter  
Association for Women Geoscientists Foundation  
Broadcom Coding with Commitment™  
Department of Defense (DoD) STEM Leadership Prize  
Lemelson Early Inventor Prize - 2024  
NASA EARTH System Science Award  
National Oceanic and Atmospheric Administration (NOAA)  
Office of Naval Research (U.S. Navy/ U.S. Marine Corps)  
Regeneron Biomedical Science Award  
Ricoh Americas Corporation  
Society for In Vitro Biology  
Society for Science 2024 Community Innovation Award  
Thermo Fisher Junior Innovator's Challenge (JIC)  
U.S. Agency for International Development (USAID)  
U.S. Air Force  
U.S. Metric Association  
Yale Science & Engineering Association, Inc.



# 2023-2024 Grant from The Joe W. and Dorothy Dorsett Brown Foundation



Experienced mentor teachers and Tulane graduate students assisted schools to support students with one-on-one mentoring and to help teachers with science fair forms, guiding students, etc.

Over **130 hours** of mentoring!

Teacher Mentoring

- 63 hours!!

Grad Student Mentoring

- 68 hours!!

**15 schools** received mentoring!!

Academy of the Sacred Heart
Benjamin Franklin High School
Edna Karr High School
Haynes Academy for Advanced Studies
Holy Cross School
Isidore Newman School
Islamic School of GNO
John Curtis Christian
Kenner Discovery Health Sciences HS
Lake Forest Elementary Charter School
Patrick F. Taylor Science & Technology Academy
Sci High
St Catherine of Siena
St. Matthew the Apostle School
Trinity Episcopal School

# 2023-2024 Professional Development

## ► GNOSEF Fall In-Person Workshop August 26 and October 7, 2023

- Sponsored by The Joe W. and Dorothy Dorsett Brown Foundation
- **29** teachers attended on August 26th and **12** teachers attended on October 7th. All received stipends.
- **3** workshop facilitators and **3** experienced teachers received stipends
- Thanks to STEM Library Lab for hosting!

## ► GNOSEF Summer Workshop June 22, 2024

- In-Person workshop for middle and high school teachers focused on Science Fair Modeling. Help new and experienced teachers develop student engagement from a general interest topic into a scientific testable question or engineering design.
- All **21** teachers received **\$100 stipends** if they affiliate with us for the 2024-25 school year.
- Will receive an **additional stipend** if they meet with a teacher mentor this fall and submit at least 5 projects to the GNOSEF thanks The Brown Foundation!





Session	Understanding of how to help students increased ...	Content and materials were useful and relevant	I feel confident about the content presented	I plan to integrate the resources shared	I plan to use a mentor to help me prepare for GNOSEF
<b>Getting Started in YOUR Classroom</b>	93% (67% strongly agree)	100% (81% strongly agree)	93% (59% strongly agree)	96% (67% strongly agree)	N/A
<b>Getting Started: Research Plan and Prior Approvals</b>	96% agree (70% strongly agree)	100% agree (70% strongly agree)	96% agree (59% strongly agree)	96% agree (59% strongly agree)	N/A
<b>Getting Started: Resources and Mentors</b>	100% agree (74% strongly agree)	93% (70% strongly agree)	93% (62% strongly agree)	85% (54% strongly agree)	<b>Teacher Mentor:</b> 66% yes/26% unsure <b>Grad Student Mentor:</b> 59% yes/33% unsure
<b>Scientific Review Committee – Fair Forms</b>	100% (67% strongly agree)	100% (83% strongly agree)	100% (67% strongly agree)	N/A	N/A
<b>From Research Plan to Regional Fair – What Students Need to Prepare for Judging</b>	100% (83% strongly agree)	100% (83% strongly agree)	92% (75% strongly agree)	N/A	N/A

# The Joe W. and Dorothy Dorsett Brown Foundation Grant – Fall Teacher Workshop Results

# Teacher Feedback from Fall Workshops

- ▶ **Suggestions for improvement of future GNOSEF teacher workshops and positive feedback:**
  - ▶ A "school science fair set up" workshop would be awesome.
  - ▶ Some models of paperwork forms would be helpful.
  - ▶ The workshops are always very informative. I love the practice and examples that are given. I do not feel that any improvements are needed besides continuing to have teachers who participate in the science fair give their personal examples of resources and projects from students.
  - ▶ I think the seminar provides great and helpful information
- ▶ Because of the success of the past year, we already submitted a grant request to continue the GNOSEF program of providing quality teacher workshops and mentoring. The grant was approved for **\$20,000** for 2024-2025.



# STEM Library Lab Membership



- ▶ Through a partnership with the **STEM Library Lab (SLL)**, materials and equipment requests were provided to students at **14 schools (16 teachers)!!**
- ▶ Partnership with SLL – **\$2000 annual cost** with \$1000 budget for consumables
- ▶ **2024: \$1521.52** for consumables (owe the balance of \$521.52 to SLL).
  - ▶ **Schools (# of teachers) that used consumables** - Edna Karr High School (2), Holy Cross School (1), International School of LA (2), Isidore Newman School (1), and St. Catherine of Siena (1) - **5 schools and 7 teachers!**
  - ▶ **Schools that borrowed equipment** - Edna Karr, HART Academy, Holy Cross School, J.D. Meisler, J.Q. Adams, Patrick F. Taylor Science and Technology Academy, ReNEW Dolores T. Arthur, Riverdale, Ron's Brothers, Sci High, St. Catherine, and Trinity Episcopal – **12 schools and 12 teachers!**
- ▶ The objective was to **provide equipment and consumables for student projects** that would otherwise not have the resources to participate.
- ▶ Partnering with SLL **allows equipment to be reused** by future science fair participants as well as the schools they partner with.
- ▶ **ALL AFFILIATED SCHOOLS ARE ELIGIBLE AND NOTIFIED!**

# Student Successes at the Louisiana Science and Engineering Fair (LSEF)

7 Junior  
Division

Category  
Winners

Place	Category	Student	School
4th	Chemistry	Debora Castillo	International School of Louisiana - Camp
3rd	Energy: Sustainable Materials & Design	Osayi Igbinoghene	Lake Forest Elementary Charter School
3rd	Environmental Engineering	Emelia Uzee	St. Catherine of Siena
2nd	Plant Sciences	Dallas Harrell	Lake Forest Elementary Charter School
1st	Robotics & Intelligent Machines	Lillian Dawson	St. Catherine of Siena
2nd	Systems Software	Duy-Quat Truong	Lake Forest Elementary Charter School
1st	Technology Enhances the Arts	Sally Majoria	John Curtis Christian



# Student Successes at the Louisiana Science and Engineering Fair (LSEF)

Place	Category	Student	School
3rd	Animal Science	Georgia Biever	Isidore Newman School
3rd	Biochemistry	Jaymon Williams	John Curtis Christian
2nd	Biomedical & Health Sciences	Amar Walia	Isidore Newman School
2nd	Biomedical Engineering	Staicy Triminio	New Orleans Charter Science and Mathematics HS (Sci High)
4th	Computational Biology	Thomas Gershanik	Isidore Newman School
2nd	Earth & Environmental Sciences	Jayden Davis	Holy Cross School
4th	Energy: Sustainable Materials & Design	Najah Honore'	Edna Karr High School
4th	Engineering Technology: Statics & Dynamics	Andrew Treadway	Holy Cross School
3rd	Environmental Engineering	Cole Bui	Patrick F. Taylor Science Technology Academy
3rd	Materials Science	Wes Douglas Gunner Guidry Ryder Plachard	Holy Cross School
3rd	Mathematics	Quang Tran	Patrick F. Taylor Science Technology Academy
4th	Plant Sciences	Noor Farhoud	Patrick F. Taylor Science Technology Academy
3rd	Systems Software	Catherine McBrayer	Patrick F. Taylor Science Technology Academy

13 Senior  
Division

Category  
Winners

# Student Successes at the Louisiana Science and Engineering Fair (LSEF)

## ► Junior Division Special Award Winners

Thermo Fisher Scientific Junior Innovators Challenge (JIC) Nominees	
Sally Majoria	John Curtis Christian
Emelia Uzee	St. Catherine of Siena

6 Special  
Award

Winners

## ► Senior Division Special Award Winners

Louisiana Science Teachers Association Special Award	
Riley Doherty	Patrick F. Taylor Science Technology Academy
Malik Adams Sarah Nguyen	Patrick F. Taylor Science Technology Academy
Louisiana Association of Teachers of Mathematics	
Quang Tran	Patrick F. Taylor Science Technology Academy
Louisiana State Horticultural Society Special Award	
Demi Harrison	Patrick F. Taylor Science Technology Academy





# International Science and Engineering Fair

## Los Angeles, CA May 2024

Each year, students from around the world compete in the Society for Science & the Public's more than 420 affiliated high school science fairs. Top winners compete at Regeneron ISEF where over 1,700 finalists from 67 countries are judged in 22 different categories. We are proud to support the finalists who represented the GNOSEF at ISEF.



	<u>Virtual 2020</u>	<u>Virtual 2021</u>	<u>Atlanta 2022</u>	<u>Dallas 2023</u>	<u>Los Angeles 2024</u>
<b>Lodging</b>			\$7,275	\$7,032	\$6,770
<b>Airfare</b>			\$1,685	\$2,512	\$3,388
<b>Meals/Misc</b>			\$2,821	\$2,246	\$2,581
<b>ISEF Reg.</b>		\$901	\$2,675	\$2,650	\$3,700
<b>(#) Cost</b>	\$0	(5) \$901	(9) \$14,493	(9) \$14,755	(8) \$16,439

Columbus,  
OH in 2025!

# May 2024 Regeneron International Science and Engineering Fair (ISEF) Student Participants

## **Quang Tran (1st from left)**

*On the inversion of the divisor function of the averaged divisor function and its error term: the Hardy Littlewood function*

Patrick F. Taylor Science & Technology Academy (teacher: Cheryl Bordelon)

## **Jai Bansal and Jackson Dirks (2nd and 5th from left)**

*The Application of Machine Learning in the Mitigation of Waste Pollution*

Isidore Newman School (teacher: Dr. David Kern)

## **Cole Bui (3rd from left)**

*Smart Trash Can Monitors for Human Waste Disposal Pattern Detection*

Patrick F. Taylor Science & Technology Academy (teacher: Cheryl Bordelon)

## **Vaishnavi Kumbala (4th from left)**

*Chymase Connection: Examining Differences In Chymase Levels Between Chronic Kidney Disease (CKD) and non-CKD Patients Independent of Current Treatments, Demographics, and Clinical Risk Factors*

Haynes Academy for Advanced Studies (teacher: Ronald Coats)





# May 2024 Regeneron International Science and Engineering Fair (ISEF)

## *Student Successes at ISEF!!*

### American Mathematical Society

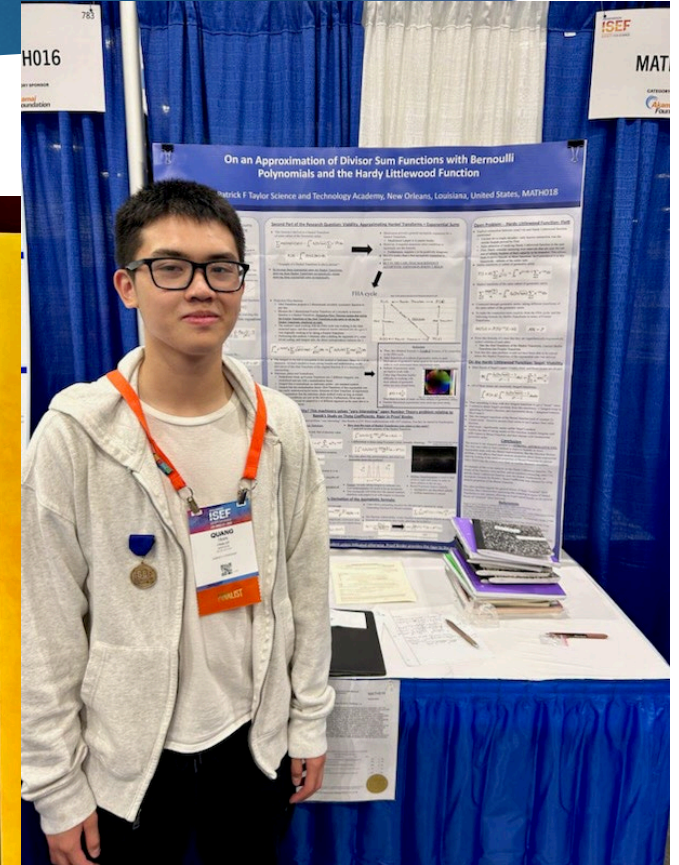
**1st Place Award of \$2,000 and One-Year Membership to American Mathematical Society**

- ▶ Quang Tran, Patrick F. Taylor Science & Technology Academy, Harvey, LA

### Mu Alpha Theta, National High School and Two-Year College Mathematics Honor Society

**2nd Place Award of \$1,000**

- ▶ Quang Tran, Patrick F. Taylor Science & Technology Academy, Harvey, LA



# GNOSEF Assessment – Student Survey

- ▶ 197/274 students responded to online survey (72%, up 23% from last year!)
- ▶ 86% competing for the first time
- ▶ **Impact of Judges:** 88% of respondents said the conversation with the judges impacted their understanding of their project. (54% said Definitely Yes)
- ▶ **Use Materials from STEM Library Lab:** 18% of respondents said they used materials from the STEM Library Lab to work on their project (up 5% from last year!)
- ▶ **Impact on Future Career in STEM:** 60% indicated that as a result of their participation in GNOSEF, they had an increased interest in pursuing a career in STEM. 35% were somewhat more interested.
- ▶ **Enter a Future Project:** 66% of respondents indicated that they would likely enter a project in a future science/engineering fair. 68% of respondents indicated that they would encourage their friends to submit a project next year.
- ▶ **Most Difficult Aspect of the Project:** The most difficult aspects of the project, as identified by students, was designing an experiment (25%). The next most difficult aspects included collecting data (22%) and analyzing data(17%).



# GNOSEF Assessment – Student Survey

## Comments



- ▶ It was very fun. The judges' advice were extremely helpful on what I can do in the future. It was a pleasure to talk with other scientists.
- ▶ I really enjoyed presenting my project to judges because it broadened my view on how I can make improvements. I also enjoyed listening to the positive feedback because it made me feel happy I pursued this project despite its complexity.
- ▶ It was fun! I had a great time, I've never really looked at STEM as a career, but this really made me want to learn more.
- ▶ Through science fair, I was able to learn more about marine macroalgae. I hope to pursue a career in the medical field now more than ever.
- ▶ I think it is a great opportunity to learn the scientific method and processes; however talking to experts is the most practical form of learning.
- ▶ I really like the judges and how there was people that are very knowledgeable of their topics. My favorite judge would most likely be the Coast Guard judge because he truly help me with my project and helped me highlight different parts of my project that are impressive.
- ▶ Very well put together! A great experience that will boosts a person's confidence in STEM.
- ▶ The judges are super inclusive.
- ▶ Science Fair gives me much better social skills and helps me gain so much more knowledge.

# GNOSEF Assessment – Teacher Survey

- ▶ 11 respondents out of 23 teachers
- ▶ First time at the GNOSEF – 10%
- ▶ Reported years participated in GNOSEF: 2-4 yrs (38%), 5-8 yrs (38%), 10+ (25%)
- ▶ 50% met with a GNOSEF mentor
- ▶ 100% thought students' projects were fairly judged
- ▶ **Comments**
  - ▶ GNOSEF personnel is very thorough and well-organized
  - ▶ I was very pleased with the feedback I received from students, and was thrilled with the number of judges this year. Kudos to those who worked so hard to find judges to participate in the fair.
  - ▶ The students trust the judges' experience and capability.

Question	Rating (Mean, Scale of 5)
<b>Your experience of registering projects, receiving feedback, and finalizing registration via BOX.</b>	4.11
<b>The general communications you received from GNOSEF staff regarding fair logistics (parking, schedule, project setup and takedown, awards)</b>	4.22
<b>Your experience with Safety Check and project setup.</b>	4.44



# GNOSEF Assessment – Judge Survey

- ▶ 10 respondents out of 118 judges
- ▶ First time as a judge – 70%
- ▶ 67% are interested in being a mentor
- ▶ 100% are interested in judging in the future
- ▶ **Organizations**
  - ▶ Tulane University (23)
  - ▶ Ochsner Health System (15)
  - ▶ LSU Health Sciences and Entergy (6 each)
  - ▶ U.S. Dept. of Agriculture (5)
  - ▶ SPAWAR New Orleans and University of New Orleans (4 each)
  - ▶ Chevron, Sewerage & Water Board of NOLA, and University of Southern MS (3 each)

Question	Rating (Mean, Scale of 5)
<b>Your experience in judging the student projects prior to live judging.</b>	3.8
<b>Your experience in the judging process.</b>	4.8
<b>The communication you received from GNOSEF staff regarding fair logistics</b>	4.8

# GNOSEF Assessment – Judge Survey Comments

- ▶ Being provided the project files prior to live judging allows for better evaluation and interaction with the students the day of the fair. Information provided by the fair coordinators allows for a better experience the day of the fair. The handling of the parking issue caused by construction activities was handled very well and communicated in a timely manner.
- ▶ I felt like all the communication was super clear and helpful. It was easy to access the judging materials and understand the projects beforehand. I had the best time getting to hear the kids present their projects, and I felt like the training beforehand was really helpful.



# Ann Wills Public Relations Activity Report – Television

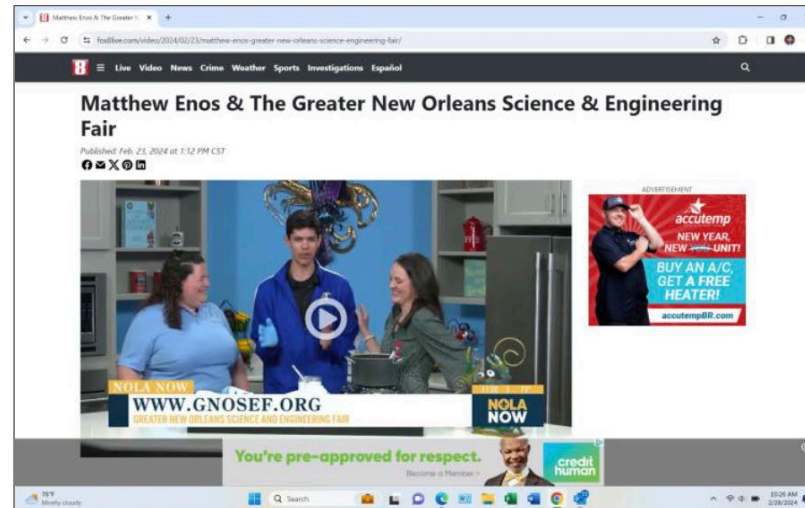
## TELEVISION:

**WVUE FOX 8 (FOX) “Nola Now” (Total Viewership: @45,605) – Friday, Feb. 23**

Dr. Michelle Sanchez and Matthew Enos of Patrick F. Taylor Academy.

<https://www.fox8live.com/video/2024/02/23/matthew-enos-greater-new-orleans-science-engineering-fair/>

<https://www.nolanow.com/video-gallery/community/science-fridays/>



**HTV10 – 10times.com (Houma, LA) – Calendar listing.**

<https://10times.com/e14x-sxz4-g4p6>

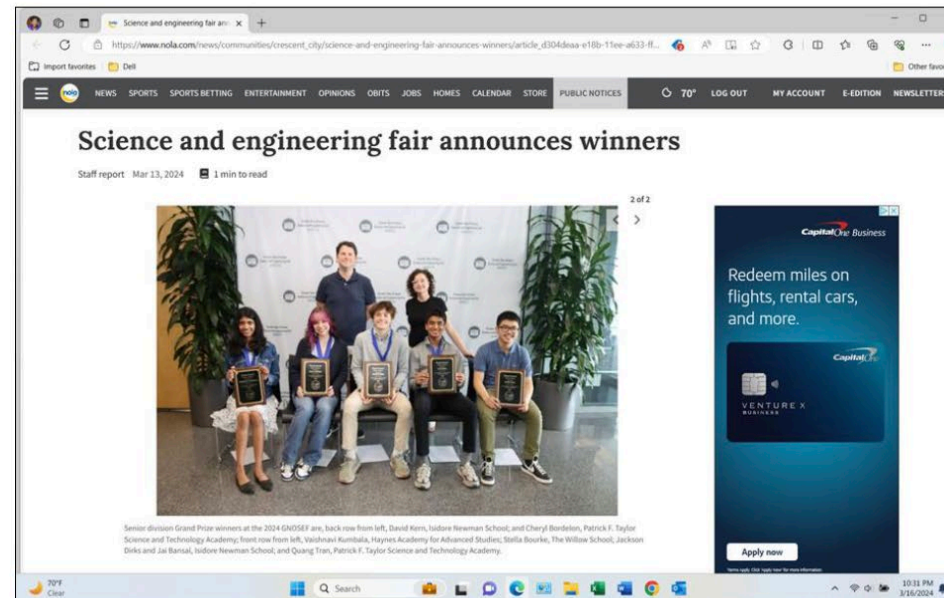
# Ann Wills Public Relations Activity Report – Print/Online

## **PRINT/ONLINE:**

**Nola.com/New Orleans Advocate - 3/13/24 (Daily Circulation: 100,000/Sundays: 339,000)**

**GNOSEF Grand Award Winners announced in the Community News Section**

[https://www.nola.com/news/communities/crescent\\_city/science-and-engineering-fair-announces-winners/article\\_d304deaa-e18b-11ee-a633-ff16b66deb73.html](https://www.nola.com/news/communities/crescent_city/science-and-engineering-fair-announces-winners/article_d304deaa-e18b-11ee-a633-ff16b66deb73.html)

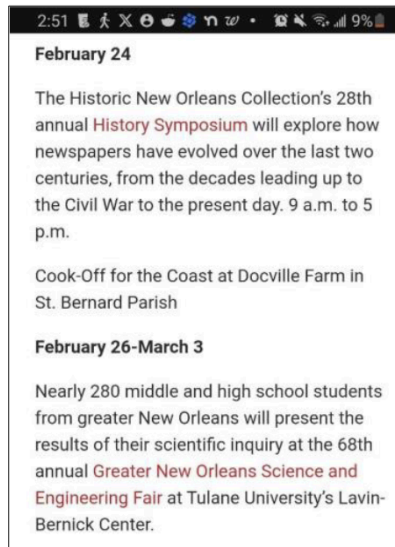
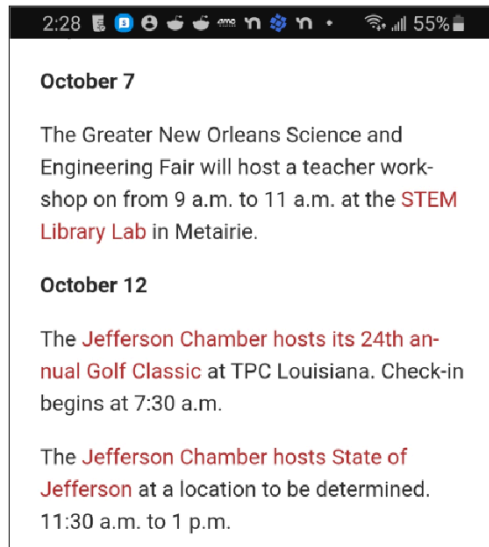
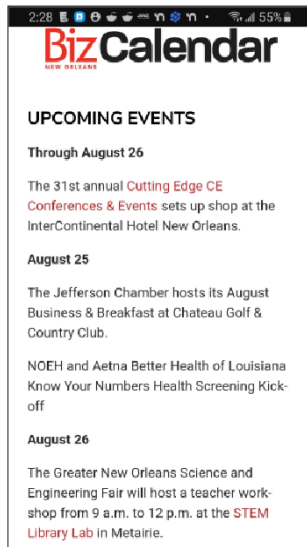




# Ann Wills Public Relations Activity Report – Print/Online

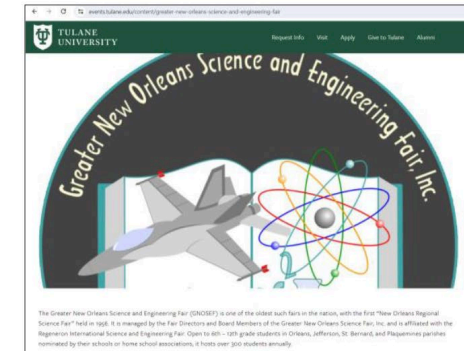
## Biz New Orleans – 2/5/24 -Teacher Workshop (8/25/23) and GNOSEF (2/26-3/3/24)

(Link unavailable; ran repeatedly though day of event)



## Tulane University – Feb. 2024

<https://events.tulane.edu/content/greater-new-orleans-science-and-engineering-fair>



## International School of Louisiana (ISL)

<https://www.gnocollaborative.com/monday-students-excel-in-science-fair-at-international-school-of-louisiana-isl/>



## NolaNewswire

<https://nolanewswire.com/education/annual-greater-new-orleans-science-and-engineering-fair-to-b-presented-feb-26-mar-3-at-tulane/>

# Ann Wills Public Relations Activity Report – Print/Online and Radio

## **M S Benbow and Associates**

[https://www.linkedin.com/posts/msbenbow\\_gnosef-stem-wearemsb-activity-7167882249261043712-oGQh/](https://www.linkedin.com/posts/msbenbow_gnosef-stem-wearemsb-activity-7167882249261043712-oGQh/)

## **Science Buddies** (event listing)

<https://www.sciencebuddies.org/science-fair-projects/science-fair/science-fair-directory>

## **RADIO:**

### **WBOK 1230 AM Talk Radio (New Orleans, LA) – February 21, 2-24**

<https://drive.google.com/file/d/1E4kFkLOKoTqUK9POoQMOZPlcQ5wlaHp7/view?usp=sharing>





# Social Media

## SOCIAL MEDIA REACH: 2/1/24 - 3/3/24

Below are the analytics for the GNOSEF campaign. Overall, the numbers were good and had a decent reach for such a niche event. Specific examples of people using the #GNOSEF tag can be found on Twitter/Instagram however the systems don't allow for an accurate total number.

We did not do any promoted posts, but we can always look at that moving forward. Instagram and Twitter are still the primary social mediums used. Notable new followers and successful posts are also below. Profile updates were made for this new year. Photo Groups were the top posts for the year.

The days of the events were (expectedly) the most active so anything we can do outside of those days in the future will certainly help build or continue the buzz. Seniors were especially engaged this year, likely due to many Juniors not having access to their phones while on the Fair floor.

### Instagram

Accounts Reached: 667 (+400 Non-followers)

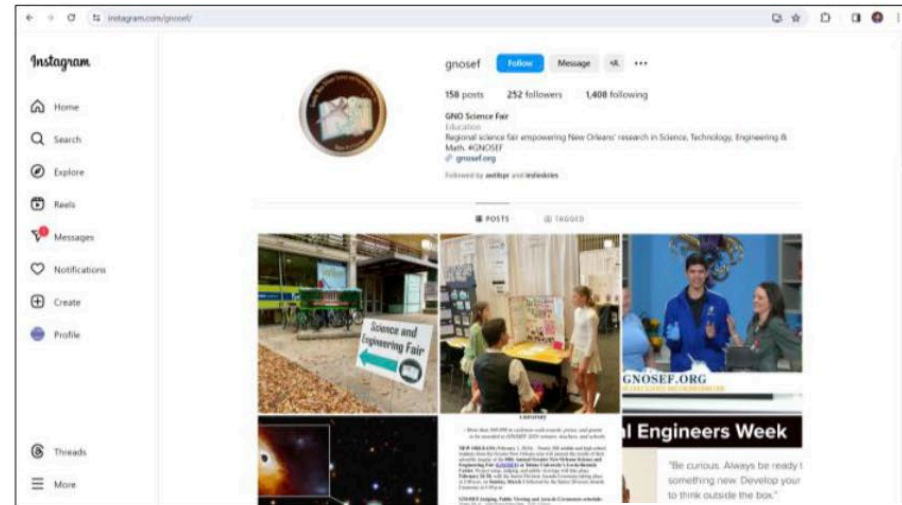
Profile Visits: 319

Followers: 255

Posts: +40

Stories: +6

Following: 1,464 (+41)



# Social Media

## Facebook

Post Reach: 1,990

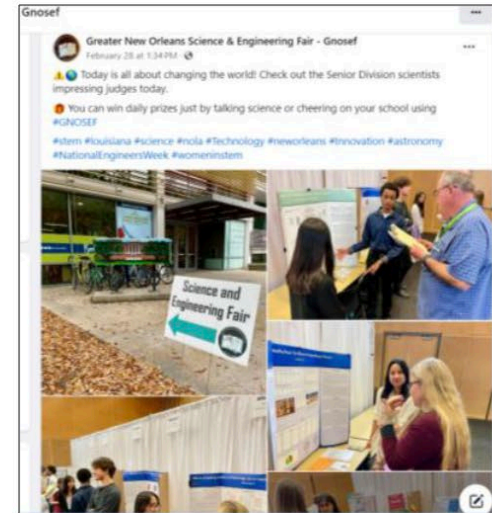
Post Engagement: 674

New Page Likes: +6

New Followers: +19 (Total: 175)

Reactions: +37 (Total: 194)

Comments: +46 (Total: 70)



## Twitter

Tweets: 68

Impressions: 4,052

Profile Visits: 436

Mentions: 11

Followers: 1,179 (Increase +25)

Following 1,626 (Increase +153)





GNOSEF, Inc. EXPENSES AND INCOME				
	2021	2022	2023	2024
EXPENSES				
§ Teacher Resources – Workshops and Mentoring Program	\$16,302	\$14,500	\$17,626	\$15,735
§ Awards				
• Students Category Cash				
Awards	\$4,205	\$4,205	\$4,168	\$3,365
Scholarships by Donors	\$10,500	\$10,500	\$12,500	\$10,500
Dedicated Student Awards	\$450	\$450	\$650	\$650
• Teacher Recognition Awards GNOSEF Jr. Div. Teacher				
	\$1,000	\$1,000	\$1,000	\$800
Dedicated Teacher Awards (DeLaHoussaye Mentor/STAR/BJHeim/ASCE)	\$2,650	\$3,150	\$3,150	\$3,350
• Patrick F. Taylor and Tom/Jean Brett School Grants	\$10,000	\$15,000	\$17,500	\$17,500
• Medals and Plaques	\$1,037	\$949	\$1,188	\$1,446
• Social Media and Survey Contest Prizes	\$326	\$282	\$43	\$201
SUB-TOTAL	\$30,168	\$35,536	\$40,198	\$37,812
§ Operating Expenses				
• STEM Library Lab Membership (replaces Mini-Grants)	\$2,231	\$2,000	\$2,000	\$2,000
• Assessment Survey and Analysis	\$200			
• Food - Judges and Volunteers and Teacher Workshops at Fair	\$0	\$0	\$6,841	\$5,893
• Facility Costs Rental (includes tables and chairs, cleaning fees)	\$0	\$0	\$0	\$462
Pipe&Drape	\$0	\$0	\$1,738	\$1,738
• Public Relations - Ann Wills	\$4,050	\$4,230	\$4,905	\$4,530
• Supplies (t-shirts/signage/photography expenses/postage/etc.)	\$236	\$932	\$1,435	\$1,159
• Operating Costs (fair affl., SoS, tax prep.,insurance)	\$3,900	\$5,070	\$5,142	\$4,760
• Technical Support / Management for fair	\$3,500	\$2,500	\$2,500	\$2,500
SUB-TOTAL	\$14,117	\$14,732	\$24,561	\$23,041
§ International - Registration, travel, housing, food, misc.	\$901	\$14,493	\$14,755	\$16,439
TOTAL EXPENSES	\$61,488	\$79,261	\$97,140	\$93,027
• Unrestricted Donations	\$58,545	\$45,400	\$44,820	\$51,090
• Paypal Teacher Deposits			\$1,043	\$671
• Brown Foundation Grant	\$14,951	\$10,000	\$10,000	\$10,000
• Bruce J. Heim Foundation Grant			\$3,000	
• ISEF Equitable Access Grant		\$7,000	\$10,000	
• Reclaimed Amazon Gift Cards	\$535	\$733	\$633	
• Dedicated Awards (Incl. pledged as scholarships)	\$25,081	\$30,100	\$35,800	\$32,000
TOTAL INCOME (includes pledged awards)	\$99,112	\$93,233	\$105,296	\$93,090

GNOSEF Status		5/31/2024
Regions Bank	Checking Account	\$204,413.90
	Card Account	\$5,000.00
Captial One Account Balance	Escrow Account	\$18,035.79
	Card Account	\$4684.88
Schwab Account		\$10,981.94
PayPal Account		\$6428.60
Tulane K-12 STEM Account		\$14,473.29
Remaining Anticipated Funds & Award Reimbursements		\$2,200
Committed Scholarship and School Awards		-\$62,681.77
Remaining Estimated Expenditures		-\$19,050.50
(incl. checks , ISEF Hotels, June Workshop, etc.)		
<b>Total Unrestricted Funds Available</b>		<b>\$184,486.13</b>

# Financial Status



# GNOSEF Wish List

- ▶ Increase the GNOSEF ISEF delegation funding (\$18,850 Total)
  - ▶ Previously budgeted 4 Senior Division Grand Award winners, 2 teachers, 1 “Adult-In-Charge”, and a 5th student in case of a team project (\$16,750)
  - ▶ Add Judge Advisor, Scientific Review Committee Chair, or another teacher/student
  - ▶ Because of the impact on participating teachers, we would like to send all 4 teachers of the Grand Award winners, if eligible. Since we have been successful with 1 teacher serving as “Adult in Charge”, this only adds 1 more to the current budget.
- ▶ Paid Bookkeeper (~\$500 setup and ~\$1075 annual including QuickBooks license), and Executive Director position (to evolve, we need to start thinking about this!)
- ▶ Recruiting and onboarding new schools and teachers (increase mentor budget by \$5k)
- ▶ Transportation grants to fund buses to the GNOSEF (\$4-\$5k)

GNOSEF, Inc. EXPENSES with PROPOSED BUDGET for 2025			
	APPROVED 2024	ACTUAL 2024	PROPOSED 2025
<b>EXPENSES</b>			
§ Teacher Resources – Workshops and Mentoring Program	<b>\$18,274</b>	<b>\$15,735</b>	<b>\$20,875</b>
§ Awards			
• Students Category Cash Awards	\$4,600	\$3,365	\$4,600
Dedicated* Scholarships by Donors	\$12,500	\$10,500	\$10,500
Dedicated* Student Awards	\$650	\$650	\$650
• Teacher Recognition GNOSEF Jr. Div. Teacher Awards	\$1,000	\$800	\$1,000
Dedicated* Teacher Awards (DeLaHoussaye Mentor/STAR/BJHeim/ASCE)	\$3,150	\$3,350	\$3,350
• Patrick F. Taylor/Tom&Jean Brett School Grants - dedicated*	\$17,500	\$17,500	\$17,500
• Medals and Plaques	\$1,200	\$1,446	\$1,500
• Social Media and Survey Contest Prizes	\$300	\$201	\$300
<b>Sub-Total</b>	<b>\$40,900</b>	<b>\$37,812</b>	<b>\$39,400</b>
§ Operating Expenses			
• STEM Library Lab Membership (replaces Mini-Grants)	\$2,000	\$2,000	Teach. Res.
• Food - Judges and Volunteers and Teacher Workshops at Fair	\$7,600	\$5,893	\$6,000
• Facility Costs Rental (includes tables and chairs, cleaning fees))	\$3,000	\$462	\$1,000
Pipe&Drape	\$2,000	\$1,738	\$2,000
• Public Relations - Ann Wills	\$5,200	\$4,530	\$5,000
• Supplies (t-shirts/signage/photography expenses/postage/etc.)	\$1,000	\$1,159	\$1,2500
• Operating Costs (ISEF affl., Sec. of State, tax prep; insurance)	\$5,200	\$4,760	\$5,000
• Technical Support / Management for Fair (ISEF Equitable Grant)	\$2,500	\$2,500	\$2,500
• Bookkeeping Support	\$1,575	\$0	\$1,575
<b>Sub-Total</b>	<b>\$30,075</b>	<b>\$23,041</b>	<b>\$24,325</b>
§ International - Registration, travel, housing, food, misc. <b>Sub-Total</b>	<b>\$16,750</b>	<b>\$16,439</b>	<b>\$18,850</b>
<b>TOTAL EXPENSES</b>	<b>\$105,999</b>	<b>\$93,027</b>	<b>\$103,450</b>
*Dedicated Awards (if offered by donor) Grants (Brown )			\$52,875
<b>GNOSEF COMMITMENT (excluding dedicated awards and Brown Grant)</b>			<b>\$52,875</b>

# 2025 Budget Proposal



# Board Business

- ▶ 2024-25 Budget Proposal
- ▶ Proposed Regions Bank Certificate of Deposit and Money Market Account (with signature authority for Michelle Sanchez , Fair Director, and Annette Oertling, President)
  - ▶ **CD** 5% 10-month (\$75k)
  - ▶ **Money Market** 3% (~\$70k)
- ▶ Nomination of 2024-25 Board Officers
  - ▶ **President** – Annette Oertling
  - ▶ **Secretary** – Danielle Scanlon
  - ▶ **Treasurer** – Lorraine McGinley
- ▶ Nomination of a new Board Member – Mary Hermann

# GNOSEF Strengths

- ▶ 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
- ▶ Teacher Workshops plus teacher support year-round, which also includes experienced “Teacher Mentors” and graduate student mentors for student participants
- ▶ Highly Qualified Judges
- ▶ Dedicated Fair Volunteers and Planning Committee



# 2024-2025 GNOSEF Calendar

- ▶ **August 24** Teacher Workshop and Kickoff
- ▶ **October 1** School Affiliation Forms Due
- ▶ **October 5** Teacher Workshop
- ▶ **October 11** Submit Project for Prior Approval to SRC
- ▶ **December 4** All Prior Approval Paperwork SRC Requested Revisions Must be Completed
- ▶ **January 10** Project Registration/Document Submission Deadline
- ▶ **January 29** All Project Paperwork with SRC Requested Revisions Must be Completed
- ▶ **February 3** All Judge Review Documents are Due
- ▶ **February 17-24 GREATER NEW ORLEANS SCIENCE AND ENGINEERING FAIR**
- ▶ TBD Registration Deadline for State Fair
- ▶ TBD Louisiana Science and Engineering Fair (LSEF)
- ▶ **May 10-16** International Science and Engineering Fair (ISEF), Columbus, OH