

**REGION VIII SCIENCE FAIR**

**NEW LOCATION**: **War Memorial Student Union (3rd Floor)**

303 Texas Ave., Hammond

# Livingston, St. Helena, St. Tammany, Tangipahoa,

# and Washington Parishes, and the City of Bogalusa

**Junior and Senior Division (grades 6 through 12)**

**Friday**, **February 13, 2015**

Set-up time: 7:45-8:45

**Judging: 9:00-1:00**

Public Showing of Exhibits: 1:00-2:00

Awards Program: 2:00

**Deadline for Entries:** register online AND postmark mail-in package by

**Wednesday**, **January 21, 2015  
($20 Late Fee Applied Jan. 22th)**

Michaelyn Broussard, Director

Region VIII Science Fair

Department of Biological Sciences

SLU 10736

Hammond, LA 70402

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**ENTRY CATEGORY**

**JUNIOR DIVISION (Grades 6-8) SENIOR DIVISION (Grades 9 - 12)**

Class 1 – Animal Sciences Class 17 – Animal Sciences

Class 2 – Behavioral & Social Sciences Class 18 – Behavioral & Social Sciences

Class 3 – Biochemistry Class 19 – Biochemistry

Class 4 – Cellular & Molecular Biology Class 20 – Cellular & Molecular Biology

Class 5 – Chemistry Class 21 – Chemistry

Class 6 – Computer Science Class 22 – Computer Science

Class 7 – Earth Science Class 23 – Earth Science

Class 8 – Energy & Transportation Class 24 – Energy & Transportation

Class 9 – Engineering (all varieties) Class 25– Engineering (all varieties)

Class 10 - Environmental Management/Sciences Class 26- Environmental Management/Sciences Class 11- Mathematical Sciences Class 27- Mathematical Sciences

Class 12 - Medicine & Health Sciences Class 28 - Medicine & Health Sciences

Class 13 - Microbiology Class 29 - Microbiology

Class 14 - Physics & Astronomy Class 30 - Physics & Astronomy

Class 15 - Plant Sciences Class 31- Plant Sciences

\*\* entry category **MUST** match abstract & judging forms – have **SIGNATURES** and **CORRECT** DATES (**B1 form**)

**Science Fair Categories (modified from ISEF list)**

**Animal Sciences**: Development, Ecology, Animal Husbandry, Pathology, Physiology,

Populations Genetics, Systematics

**Behavioral & Social Sciences**: Clinical & Developmental Psychology, Cognitive

Psychology, Physiological Psychology, Sociology

**Biochemistry**: General Biochemistry, Metabolism, Structural Biochemistry

**Cellular & Molecule Biology**: Cellular Biology, Cellular& Molecular Genetics,

Immunology, Molecular Biology

**Chemistry**: Analytical Chemistry, General Chemistry, Inorganic Chemistry, Organic

Chemistry, Physical Chemistry

**Computer Science**: Algorithms, Data Bases, Artificial Intelligence, Networking &

Communications, Computational Science, Computer Graphics, Software Engineering, Programming, Languages, Computer System, Operating System

**Earth Science**: Climatology, Weather, Geochemistry, Mineralogy, Paleontology,

Geophysics, Planetary Science, Tectonics

**Energy & Transportation**: Aerospace and Aeronautical Engineering, Aerodynamics,

Alternative Fuels, Fossil Fuel Energy, Vehicle Development, Renewable Energies

**Engineering (Electrical & Mechanical/ Materials & Bioengineering)**: Electrical

Engineering, Computer Engineering, Controls Mechanical Engineering, Robotics,

Thermodynamics, Solar, Bioengineering, Civil Engineering, Construction Engineering, Chemical Engineering, Industrial Engineering, Processing Material Science

**Environmental (Management and Sciences)**: Air Pollution & Air Quality, Soil

Contamination & Soil Quality, Water Pollution & Water Quality, Bioremediation,

Ecosystems Management, Environmental Engineering, Land Resource Management, Forestry, Recycling, Waste Management

**Mathematical Sciences**: Algebra, Analysis, Applied Mathematics, Geometry,

Probability & Statistics

**Medicine and Health Sciences**: Disease Diagnosis & Treatment, Epidemiology,

Genetics, Molecular Biology of Diseases, Physiology & Pathophysiology

**Microbiology**: Antibiotics, Antimicrobials, Bacteriology, Microbial Genetics, Virology

**Physics and Astronomy**: Atoms, Molecules, Solids, Astronomy, Biological Physics,

Instrumentation & Electronics, Magnetics & Electromagnetics, Nuclear & Particle Physics, Optics, Laser, Masers, Theoretical Physics, Theoretical or Computational Astronomy

**Plant Sciences**: Agriculture/Agronomy, Development, Ecology, Genetics,

Photosynthesis, Plant Physiology (Molecular, Cellular, Organism), Plant Systematics, Evolution

**Team Projects**: all categories (will be judged within category, not separately)

**Junior-Senior Division Entry Guidelines for Teachers/Advisors:**

**Deadline**: online AND mail-in (postmark) entries by **Wednesday, Jan. 21, 2015**

**Fees**: **$15 per student** = one check for ALL entries (NO CASH)

– payable to **Region VIII Science Fair**  
  
**\*Late Fee**: Entries postmarked after January 21th will require a $20 Late Fee per School

**Size Limits**: 48” wide by 30” deep by 108” high from the floor

**Entries**: 25 entries PER school (no more than 4 in the same category)

* contact Michaelyn Broussard ([mbroussard@selu.edu](mailto:mbroussard@selu.edu)) with any questions

1. Teachers/Advisors MUST enter each student. Do not allow students to enter themselves (**online registration and abstract form MUST match categories**).
2. Safety: Exhibits in compliance with Intel ISEF Display and Safety Regulations (ISEF – International Science and Engineering Fair). The ISEF rule booklet is mailed to the schools by the State Science Fair, and available on the Region VIII Science Fair web page (<http://www.selu.edu/acad_research/colleges/sci_tech/sci_fair/index.html>). Pay particular attention if students are conducting research on vertebrate animals and if they are bringing any “props” to the fair. Many items are **prohibited** and may result in disqualification. Safety always comes first!

**CHECKLIST for PROJECT BOARDS and DISPLAYS**

Refer to 2015 ISEF Rules and Guidelines for details/specifics

<https://student.societyforscience.org/international-rules-pre-college-science-research>

**Display & Safety Committee is the final authority on display and safety issues**

􀂉 Maximum project size: W 48’’ x D 30” x H 108”

***Items required to be displayed on project board or in front of project:***

􀀹 Original Official Abstract

􀀹 Photograph image credits, if appropriate

***Forms required to be at the project but not displayed, including***, ***but not limited to:***

􀀹 Checklist for Adult Sponsor (1)

􀀹 Student Checklist (1A)

􀀹 Research Plan, Approval Form (1B) – **date/sign PRIOR TO START OF RESEARCH**

􀀹 Human Participants Form (4)

\*\*Forms must be available if requested by a judge or other fair official.

***Items NOT allowed at the display:***

􀀹 Living organisms, including plants

􀀹 Soil, sand, rock and/or waste samples even if permanently encased in a slab of plastic

􀀹 Taxidermy specimens or parts

􀀹 Preserved vertebrate or invertebrate animals

􀀹 Human or animal food

􀀹 Human/animal parts or body fluids (for example, blood, urine)

􀀹 Plant materials (living, dead, or preserved) that are in their raw, unprocessed, or

non‐manufactured state (Exception: manufactured construction materials used in building the project or display)

􀀹 Photographs or other visual presentations depicting vertebrate animals in surgical

techniques, dissections, necropsies, or other lab procedures

􀀹 All chemicals including water (Exceptions: water integral to an enclosed, sealed

apparatus.)

􀀹 All hazardous substances or devices [for example, poisons, drugs, firearms, weapons,

ammunition, reloading devices, and lasers (as indicated in item 5 in the section of these rules entitled “Allowed at Project or in Booth BUT with the Restrictions Indicated”)]

􀀹 Dry ice or other sublimating solids

􀀹 Sharp items (for example, syringes, needles, pipettes, knives)

􀀹 Flames or highly flammable materials

􀀹 Glass or glass objects unless deemed by the Display and Safety Committee to be an

integral and necessary part of the project (Exception: glass that is an integral part of a commercial product such as a computer screen)

􀀹 Any apparatus deemed unsafe by the Scientific Review Committee, the Display and

Safety Committee, or Society for Science & the Public (for example, large vacuum tubes or dangerous ray‐generating devices, empty tanks that previously contained combustible liquids or gases, pressurized tanks, etc.)

􀀹 Batteries with open‐top cells

**Awards, medals, business cards, flags, logos, CD's, DVDs, flash drives, brochures, booklets, nor endorsements, and/or acknowledgments** (graphic or written) unless the item(s) are an integral part ofthe project (Exception: Intel ISEF medal(s) may be worn at all times.)

􀀹 Postal addresses, world wide web, email addresses, telephone & fax numbers of

Finalists

􀀹 Active Internet or e‐mail connections as part of displaying or operating the project at

the Intel ISEF

􀀹 Prior years’ written material or visual depictions on the vertical display board.

[Exception: the project title displayed in the Finalist’s booth may mention years or which year the project is (for example, “Year Two of an Ongoing Study”)]. Continuation projects must have the Continuation Project Form (7) vertically displayed.

***Other requirements:***

􀀹 Finalists must be present at their projects for the Display and Safety inspection. The inspection

is a process that takes place between the Finalist and inspector; therefore, no other persons should be present representing the Finalist except for an interpreter if necessary.

􀀹 Returning items that have been removed through a violation and/or adding items that are not

permitted after final clearance by the Display and Safety Committee and the Scientific Review Committee is prohibited.

􀀹 Society for Science & the Public, the Scientific Review Committee, and/or the Display and

Safety Committee reserve the right to remove any project for safety reasons or to protect the integrity of the Intel ISEF and its rules and regulations.

􀀹 A project data book and research paper are not required but are highly recommended.

􀀹 *Display of photographs other than that of the finalist must have a photo release signed*

*by the subject, and if under 18 years of age, also by the guardian of the subject. Sample consent text: “*I consent to the use ofvisual images (photos, videos, etc.) involving my participation/my child’s participation in this research.”

􀀹 Finalists using audio‐visual or multi‐media presentations (for example, 35mm slides;

videotapes; images, graphics, animations, etc., displayed on computer monitors; or other non‐print presentation methods) must be prepared to show the entire presentation to the Display and Safety inspectors before the project is approved.

􀀹 If a project fails to qualify and is not removed by the Finalist, Society for Science & the Public

will remove the project in the safest manner possible but is not responsible for damage to the project.

􀀹 Any disks, CDs, printed materials, etc. (including unofficial abstracts) designed to be

distributed to judges or the public will be confiscated by the Display and Safety Committee and will be discarded immediately.

Project sounds, lights, odors, or any other display items must not be distracting.

*Note: You should review ALL ISEF rules since each category has their own set of restriction/guidelines (*[*http://www.societyforscience.org/isef/document/*](http://www.societyforscience.org/isef/document/)*).*

1. Preparing Abstracts: Maximum of 250 words, single-spaced. The entire abstract must be placed within the block given on the Abstract Form. The abstract should include: purpose of the experiment, procedures used, data, and conclusions. It may also include any possible research applications. An abstract should not include: acknowledgement or work/procedures done by the mentor. The **original** abstract form must be present with each exhibit at the regional and state science fairs. A **copy of the abstract** should be included in the mail-in packet.
2. Team Projects – 1) Team projects (2-3 students per team, entry fee is $15 per student, not project) need only one **judging form** with **all** student names on it. 2) Please complete the **online registration form** as well and include all students' names (see webpage: <http://www.selu.edu/acad_research/colleges/sci_tech/sci_fair/index.html>)

**Check-list Mail-in for Teachers:**

**A. Online Registration:**

\_\_\_\_\_\_ 1. The school’s name, the student’s name, grade, project title, and class number is completed in the online registration.

**B. Mail-in Packet** for Region VIII Science Fair needs to contain:

\_\_\_\_\_\_ 1. A judging form per project with signatures – only fill in **top** portion.

\_\_\_\_\_\_ 2. Typed abstract form per project with signatures. (For each project, staple or

paperclip the judging form to the abstract)

\_\_\_\_\_\_ 3. One check from your school covering all entries made out to Region VIII

Science Fair (**$15 per student, $30-45 per team).**

**(Late Fee of $20 MUST be included for all packets sent after January 21th).**

**Mail to:** Dr.Jen Tynes, Assistant Director

Region VIII Science Fair

Department of Biological Sciences – SLU 10736

Hammond, LA 70402

* Remember to **bring** the original abstract, ISEF Forms 1A (or 1A-TEAM), 1B, and checklist for Adult Sponsor/Safety Assessment Form (1) the day of the fair.  **Do not include in mailed packet.** See <https://student.societyforscience.org/forms> - for all ISEF forms
* **NOTE: Any research involving vertebrate animals, including humans, requires additional ISEF forms and formation of a review committee at your school.**

*Region VIII coordinators reserve the right to change the class/category of a project, if the abstract indicates that the project is not entered in the most appropriate class/category.*

**Student/Visitor Conduct**

1. Students must set up their exhibits by 8:45 AM. Judging will begin at 9 AM. Students must remain with their project until released by the science fair director. Please note that more than 1 set of judges may visit a particular project in order to determine tie-breakers, special awards, and overall awards.
2. Only exhibitors and judges are allowed on the Student Union Ball Room during judging. Seats are available nearby – 1st, 2nd, 3rd floors – **MAKE PLANS** on meeting up with student after judging. Cameras and video cameras are not allowed during judging. Violation of this rule may cause the disqualification of a participant.
3. Students not displaying proper conduct will be automatically disqualified.
4. Judges’ decisions are FINAL. Any issues must be brought forward to the director by the exhibitor’s teacher, not by parents.

**FAIR DAY**

**FORMS:** All participants must have the following forms **with proper signatures**:

* 1. Research Plan **Form (1A)** or Research Plan **Form (1A) - TEAM**
  2. Approval **Form (1B) – DATE PRIOR TO START of RESEARCH**
  3. Checklist for Adult Sponsor /Safety Assessment **Form (1)**
  4. Original **Abstract** Form

**SPECIAL FORMS:** Any project involving humans must be approved by the local school’s Institutional Review Board (IRB). This committee must sign **Form (4)**. Also, each school is to have a local Science Review Committee, if any project involves human subjects or vertebrate animals. This committee chairperson must sign **Form (1B). Do not mail these forms with the entry package** - **bring them on the day of the fair and secure a signature from the Safety Regulations Committee**.

It is strongly suggested not to use vertebrate animals in the research unless your school is easily able to form the proper review board and comply with the extra regulations and paperwork. Invertebrate organisms are an excellent substitute.

**Awards**:

1. Winners will be announced during an awards ceremony at the Student Union (approximately 2-3 p.m.). All participants should remain throughout the award’s ceremony with their project on display.
2. Judges will determine 1st and 2nd place winners in each class with projects worthy of advancing to state. Not every class will have projects placing. Again, judge’s decisions are final.
3. Although Region VIII is affiliated with ISEF, we are **NOT** able to send our Overall Winner to ISEF due to budget constraints.

**State**: Students that qualify for State Science Fair (1st and 2nd Place Winners) will need to register on-line for the State Science Fair. Check <https://is.lsu.edu/newDOCE/LSEF/State.asp> for the most up-to-date information.

Although reasonable care will be provided for the protection of each exhibit, neither the Region VIII Science Fair Committee nor cooperating groups assume responsibility for loss or damage to the property of the exhibitor.