

Northeast Indiana Regional Science and Engineering Fair



College of Engineering, Technology, Computer Science



Indiana University – Purdue University Fort Wayne



Regional Fair Information

- Regional Fair Basics
- Benefits of Fair participation
- Fair Awards
- Common Questions
- Chain of Progression
- Regional Fair Process
- Regional Fair Resources
- Important Dates
- Contact Information

NE IN Regional Fair Basics



- **Students from 8 counties:** Adams, Allen, Huntington, Kosciusko, Miami, Wabash, Wells, and Whitley
- **Regional Fair Divisions**
 - ***Elementary Division*** (K – 5th grade)
 - Elementary projects are grouped by grade level
 - ***Junior Division*** (6th – 8th grade)
 - ***Senior Division*** (9th – 12th grade)
 - Junior and senior projects are grouped by project categories
- ***Junior and Senior Division students may participate in the Regional Fair even if their school chooses not to participate; notification of the Fair director or program assistant is necessary***

17 Categories in the Junior/Senior Division: Encourage Individual Student Interest

(see list of categories in 2014 International Rules; page 29)

Traditional science categories

- Animal sciences
- Biochemistry
- Biology (cellular, molecular)
- Chemistry
- Earth & Planetary
- Medicine & Health
- Microbiology
- Physics & Astronomy
- Plant Sciences

Additional Categories Continued

Engineering and Technology categories

- Electrical & Mechanical Engineering
- Materials & Bioengineering
- Energy & Transportation

Environmental categories

- Environmental Management
- Environmental Science

Other categories

- Mathematical Science
- Computer Science
- Behavioral and Social Science

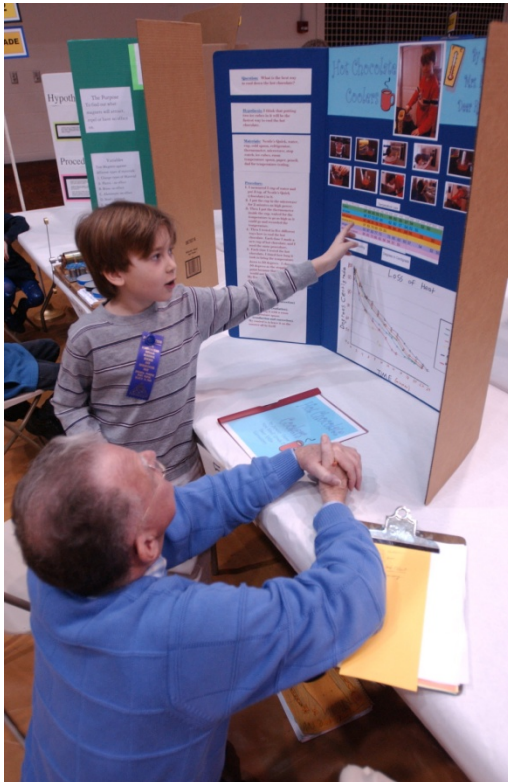
Benefits of Fair Participation



- **Pursuit of student's interests**
- **Interact with a mentor**
- **Gain valuable experience/skill using the Research/Engineering Process**
 - Gain insight into what scientists and engineers do
- **Innovative, ORIGINAL Research**
 - Promotes independent thinking
 - Promotes attitude of discovery
- **Building Leaders**
 - Students as experts on their project topic
 - Researchers are “trailblazers” and can be entrepreneurs
- **Offering Opportunities**
 - *Universally recognized by university admissions*
 - Scholarships on local, state, and international level
 - School identity: community recognition
 - Awards: cash, gift cards, and other items



Fair Awards Abound!



2013 Regional Awards

- 15 local organizations offered awards
- 8 IPFW awards
- \$3150 in cash awards and gift certificates
- 27 ISEF awards
- 2 \$500 scholarships to IPFW
- **Other awards:** Medallions, pins, certificates, books, shirts, subscriptions, etc.
- **Advancement:** 10 students from each of the junior and senior categories advance to State Fair; possibility of seniors advancing to ISEF



State and ISEF Awards

- **Hoosier State Fair:**
 - 68 awards
 - \$2000 monetary awards,
 - \$10,000 in scholarship: Governor's Top Young Scientist
 - \$6000 scholarship and \$300 to the student's teacher
- **International Science and Engineering Fair (ISEF):**
 - \$3 million dollars in awards
 - 400 finalist awards and prizes
 - ISEF Special Awards are presented by nearly 70 scientific, professional, and educational organizations

Common Questions



- How do students progress to other fairs?
- Where do I find a mentor?
- What procedures do I follow with my project?
- What forms do I need to complete?
- Where can I get support to help me with things like paperwork and procedures?
- How does the process work on the regional and state website?

Chain of Progression



- **School advancement to NE Indiana Regional Science and Engineering Fair: March 22, 2014 IPFW Athletics Center**
 - Elementary schools (K-5): 5 entries
 - Elementary/Intermediate (K-6): 7 entries
 - Middle schools (6-8): 5 entries
 - High Schools (9-12): 15 entries
- **Student project advancement to Hoosier Science and Engineering Fair (HSEF) from Regional Fair: April 5, 2014 at IUPUI**
 - 10 student projects from junior division (Regional Fair includes grades 6-8 as the junior division)
 - 10 student projects from senior division (grades 9-12)
- **Senior Division student project advancement to the International Science and Engineering Fair (ISEF): May 11-16 Los Angeles**
 - Students are chosen to advance by HSEF

Where do I find a mentor?



- **Contact local corporations who do research and engineering projects**
 - Examples: Scientific Research Consultants, Raytheon
- **Contact local university departments**
 - *IPFW COMPUTER SCIENCE WILL MENTOR A LIMITED NUMBER OF STUDENTS*
- **Contact area non-profit organizations:**
 - Examples: Botanical Gardens, Fort Wayne Children's Zoo
- **Contact professional organizations:**
 - Examples: NE Indiana Veterinarian Society, NE Indiana Engineers Week Committee

3 Key procedures to follow



1) Educator Registration at SEFI website (all levels)

- www.sefireg.org

New teachers register and veteran teachers re-activate

2) Junior/Senior Project Eligibility: (grades 6-12)

- **Senior Division:** Before experiment check out the ISEF rule book go to: www.societyforscience.org/isef
- **Junior Division:** animal and human participants
- Pre-Experimentation Review (before starting)
- Post-Experimentation Review (after completing the Fair)

3) Fair Registration (all levels)

- Same website as #1 or You can follow the link on the Regional website: www.ipfw.edu/scifair

Teacher Registration Junior/Senior Project Eligibility Student Registration Procedures



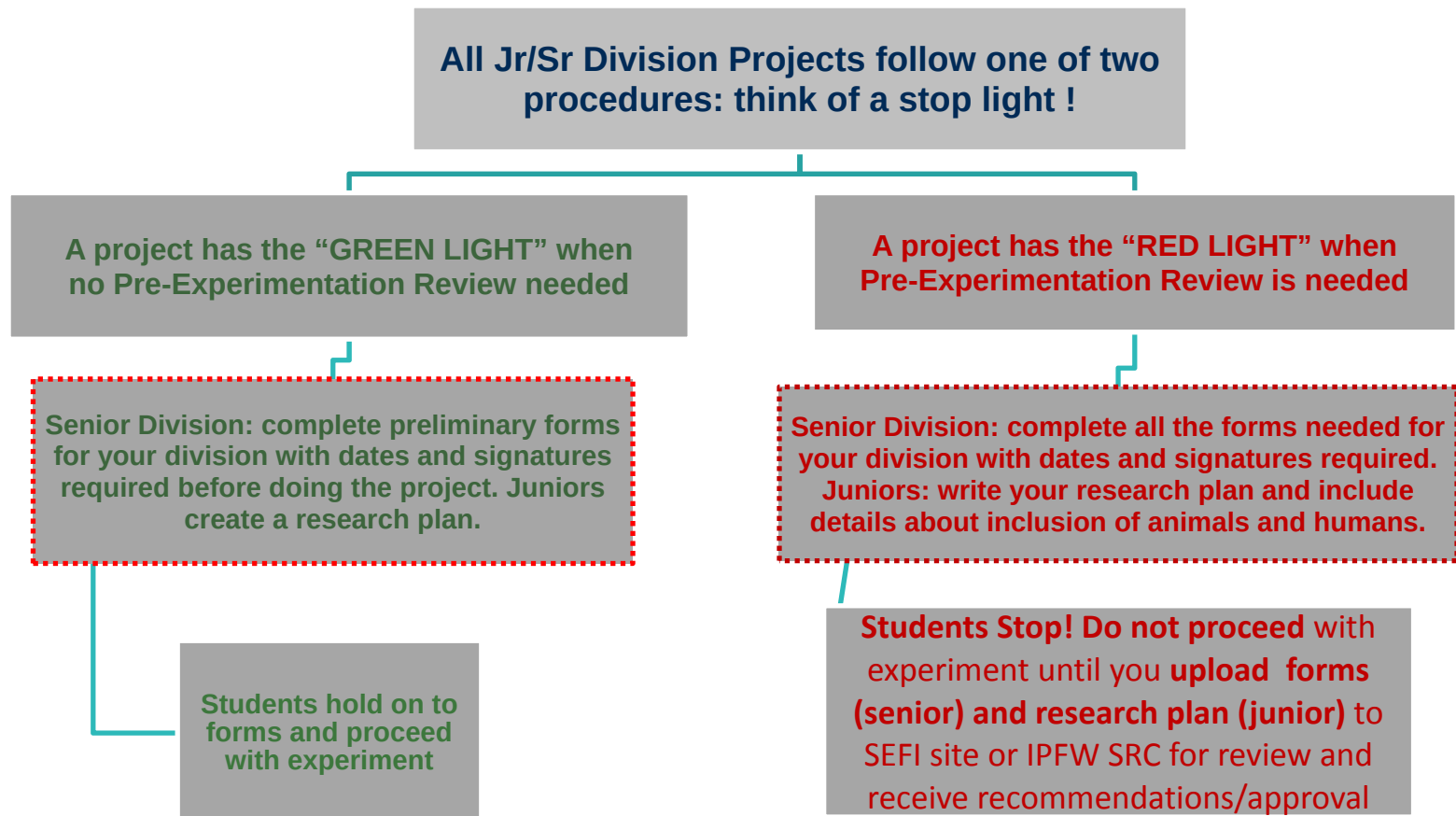
STEP 1: Teacher Registration (all divisions)



- **Who?** All Teachers in all divisions
- **What?** Complete Teacher Registration at the Science Education Foundation of Indiana (SEFI) website:
www.sefireg.org
- **Veteran Teachers:** If you have registered in the past you will still need to “reactivate” your registration by visiting the website
- **When?** As soon as possible in order to get on the Regional Fair list for future communications

Step 2: Junior/Senior Divisions (6th-12th grade): Determine Student's Project Eligibility:

(This involves for some junior/senior division projects: PRE-EXPERIMENTATION REVIEW)



Junior Division Procedural Summary:

Student Registration, Review, and Forms

1. **Register Students:** Submit the student names from your school at the SEFI registration website following their directions: www.sefireg.org
2. **Determine if Pre-Experimentation Review is needed:** If students say **YES** when asked if their project uses animals or human participants, they need pre-review.
3. **Complete Research Plan on SEFI website. If student needs project reviewed:**
2 options: 1) print research plan and submit to IPFW for pre-experimentation review or, 2) send a list of student names to Caryl Spira by email indicating student projects are entered on line and the IPFW Review committee will be notified to review them.
4. **Proceed with Experiment if no pre-review is required or proceed after given approval by IPFW review committee if project required pre-experiment review.**
5. **Paperwork needed for submission when you advance & register students for the Regional Fair:**

Basic Project Information submitted on line with the Research Plan

Post-Experiment: Abstract (summary of results)

Senior Division Procedural Summary:

Student Registration, Review, ISEF Forms

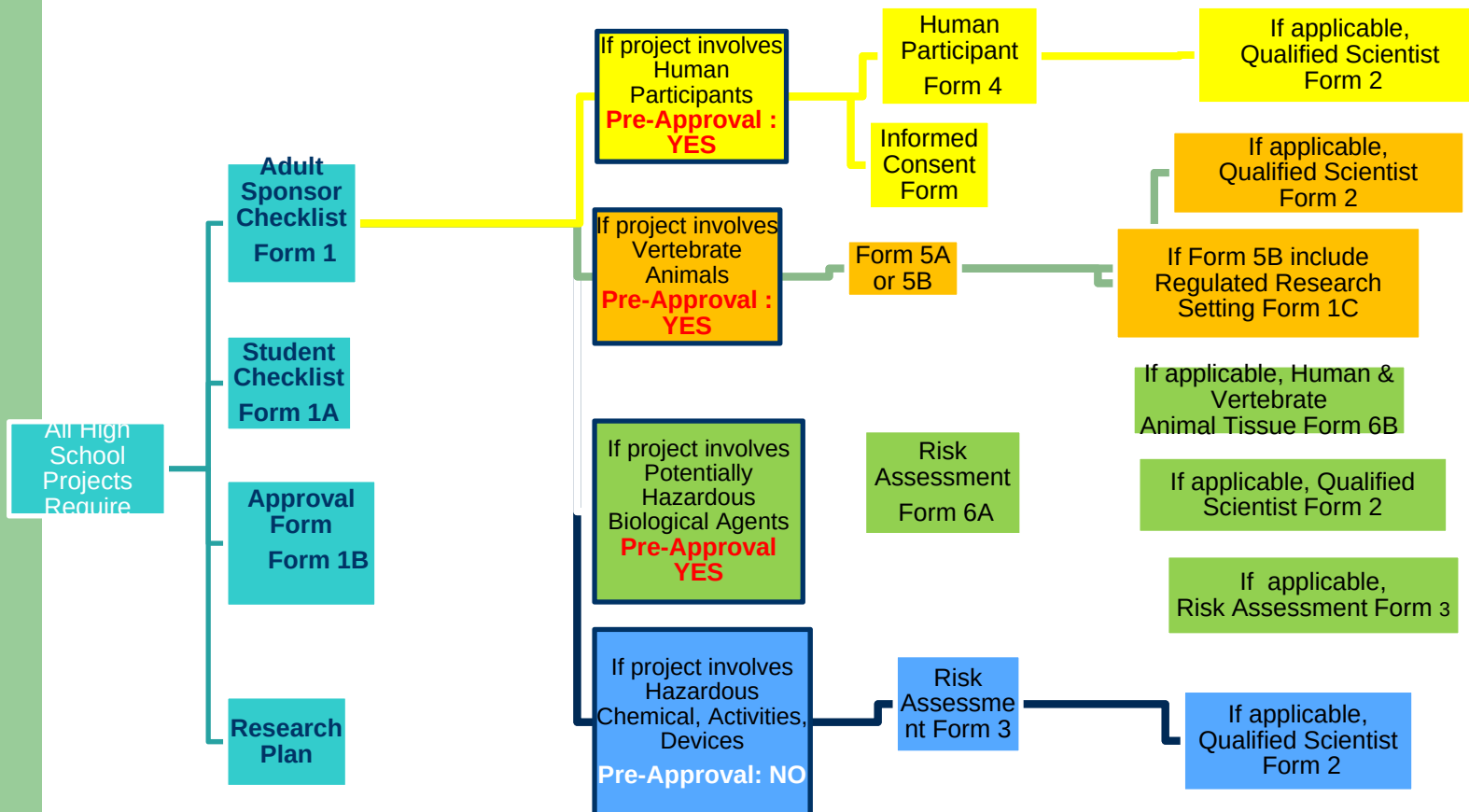
1. **Teachers Register Students** at SEFI registration site and receive a log-in and password for the student. Students should complete the student and project information, questionnaire, and retrieve forms needed from ISEF website.
 1. Registration site for senior division: www.sefireg.org
2. **Determine the need for Pre-Experimentation Review** : answer questions at the SEFI website; **YES** answers require **Pre-Experimentation Review**
3. **Complete all basic approval forms and the project-specific forms** using recommendations after questions are answered. Upload forms to SEFI
4. **Proceed with project or notify IPFW that project paperwork is ready for review by IPFW SRC Chair if Pre-Experimentation Review is required**; wait to start project until forms are returned and signed by SRC Chair
5. **Paperwork Needed for Submission during registration for POST Experimentation Review**

All projects require ISEF (International Science & Engineering Fair) forms
found on their website: <https://student.societyforscience.org/forms>

You can also connect to ISEF forms through the SEFI website.

Senior Division: ISEF Forms Diagram

(note that the ISEF handbook & website provide help with this process)



FYI: Reminders for Junior/Senior Division

- All relevant forms must be turned in or uploaded to SEFI by deadlines posted on the IPFW NE Indiana Regional Fair website: www.ipfw.edu/scifair
- Reminder: Seniors use ISEF Forms and Juniors complete on line project information and research plan. **Everyone does an abstract after experimentation is completed.**
- All forms must have dates and signatures as indicated on the forms; **please note WHEN these forms must be completed** (before or after the experiment).
- **For help with forms contact the Regional Fair Program Assistant: Caryl Spira at spirac@ipfw.edu**

STEP 3: Registration for the Fair (All Divisions)



Only registered teachers may advance students to the Regional Fair through the SEFI website by clicking the appropriate advancement “button” next to the students’ names.

- All students who advance and plan to attend the Regional Fair must be registered on the SEFI website. Their student and project information should be completed.

Elementary Division Student Information on SEFI website:

- ❖ **Required:** Student (About Me) and Project Information (About my Project)
- ❖ **Not needed:** Abstract (NEIRSEF does not advance elementary students to the state fair; abstract not needed)

Junior Division Student Information on SEFI website:

- ❖ **Required:** Student (About Me) and Project Information (About my Project)
- ❖ **Required:** Project Questionnaire & Abstract

Senior Division Student Information on SEFI website:

- ❖ **Required:** Student (About Me) and Project Information (About my Project)
- ❖ **Required:** Project Questionnaire & Abstract
- ❖ **Required:** All ISEF Forms as required by your project

STEP 3: Registration Deadlines

K-5 Registration



Elementary Registration by March 7
Display must meet requirements.
See Display Guidelines on the regional website under student and teacher resources

6th -12th Registration and Eligibility Dates



Pre-Review Forms

only for those who need to
have pre-review forms submitted for approval by
January 29, 2014

Post Review Forms: all junior and senior participants must have proper information entered (junior division) and all information and ISEF forms (senior division) on SEFI website



Jr./Sr. Post Review of project paperwork and Registration: March 7, 2014
Display must meet requirements

Where can I get support?



Reaching out to Educators:

- Teacher Support
 - SEFI website: www.sefireg.org
 - Regional Fair website: www.ipfw.edu/scifair
 - Regional Fair Email Updates

- Personal Support: email communication
 - Program Assist: Caryl Spira spirac@ipfw.edu
 - Fair Director: Carol Dostal dostalc@ipfw.edu



Registration Fees

- Registration Fee: \$10 per project
- All Registration Fees should be sent to:

IPFW

Attn: Regional Fair Program Assist. Caryl Spira

2101 E. Coliseum Blvd

Fort Wayne, IN 46805

Include with your check(s) on a separate sheet of paper:

School Name

Teacher or Fair Coordinator (if check from a school) or Parent Name (if from a parent)

Include a list of the student name(s)

Important Date Reminders

- **Deadline** for submission/upload of **Junior & Senior** Division project information (junior division) and ISEF forms (Senior Division) only for projects needing Pre-Experimentation Review
 - 5 p.m. Wednesday, January 29, 2014
- **Deadline** for *Registration and entering student/project information for all divisions* on SEFI website. **Junior and Senior Divisions** must also include an abstract and Senior Division appropriate ISEF forms for Post-Experimentation Review
 - 5 p.m. Friday, March 7, 2014
- **Deadline** for Paying Regional Fair Fees:
 - 5 p.m. Friday, March 14, 2014