

Northeast Indiana Regional Science and Engineering Fair



College of Engineering, Technology, Computer Science



Indiana University – Purdue University Fort Wayne



Regional Fair Information

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- Benefits of Fair participation
- Fair Awards
- Common Questions
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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 2013 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!



2012 Regional Awards

- 14 local organizations offered awards
- 8 IPFW awards
- \$3125 in cash awards and gift certificates
- 27 ISEF awards
- 2 \$500 scholarships to IPFW
- 1 full ride scholarship (2 yrs) to Ivy Tech
- **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 23, 2013**
 - 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 6, 2013**
 - 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 12-17**
 - 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
 - **NEW FOR 2013: 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

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

- Before experiment check out the ISEF rule book go to:
www.societyforscience.org/isef
- Pre-Experimentation Review (before starting)
- Post-Experimentation Review (after completing the Fair)

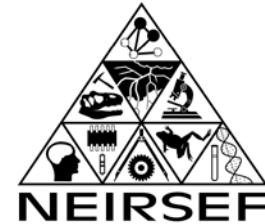
3) Fair Registration (all levels)

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

Teacher Registration Project Eligibility Student Registration Procedures

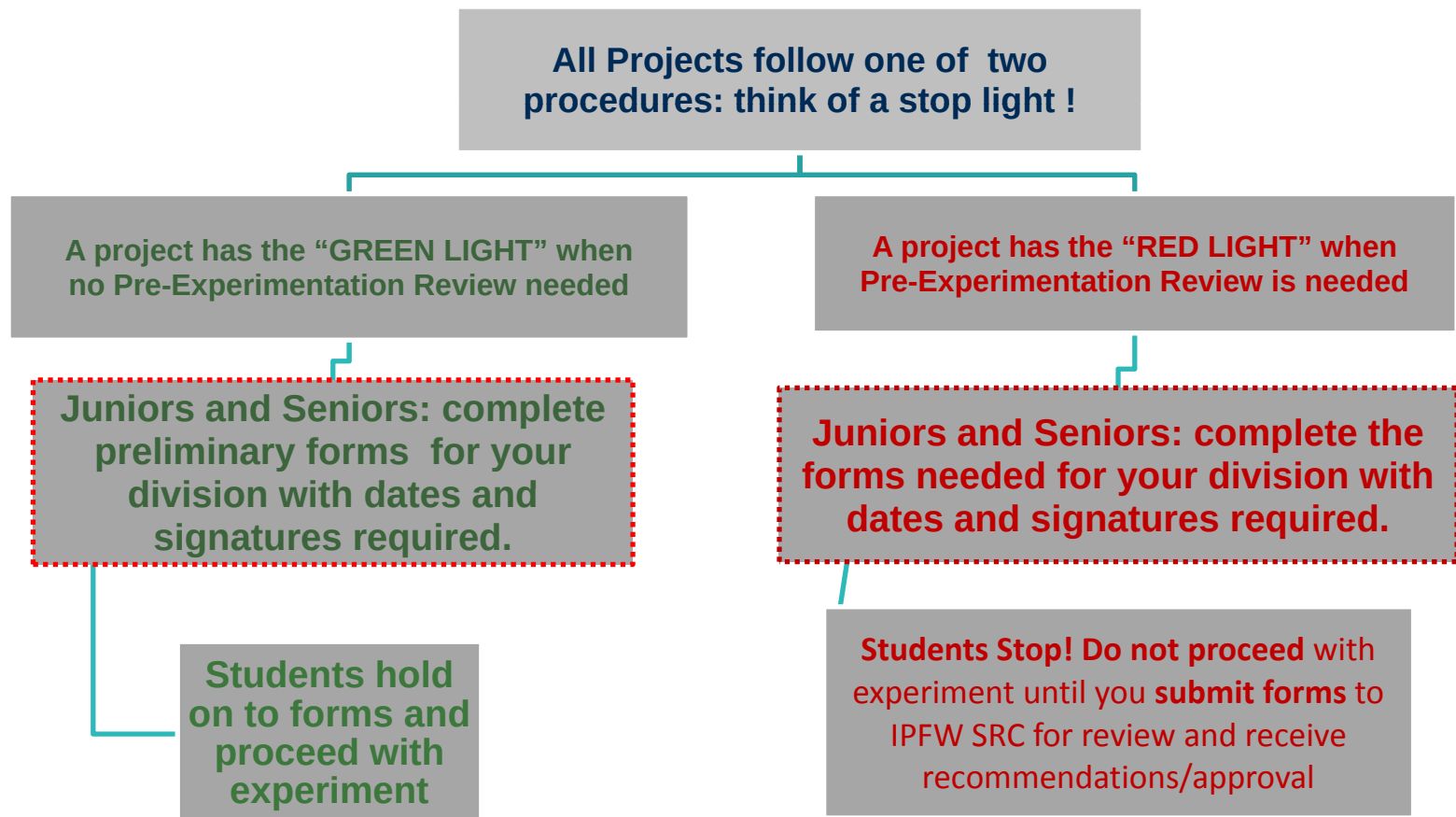


STEP 1: Teacher Registration



- **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 again.
- **When?** As soon as possible in order to get on the Regional Fair list for future communications

Step 2: Register Students & Determine Student's Project Eligibility: (RE-EXPERIMENTATION REVIEW)



STEP 2a: Junior Division: Student Registration, Review, and Forms

1. **Register Students:** Submit a student list of all junior division projects from your school at the SEFI registration website: www.sefireg.org
2. **Determine if Pre-Experimentation Review is needed:** Go to the Regional Fair website to answer questions regarding student projects to determine who needs to have their project paperwork reviewed BEFORE doing the experiment. **YES answers need pre-review** www.ipfw.edu/scifair
3. **Complete Forms** on the Regional Fair website www.ipfw.edu/scifair
4. **Proceed with Experiment (or submit for Pre-Review first)**

Paperwork needed for submission

Regional Junior Division Approval Form (found on the IPFW website)

Research Plan

The SRC Chair will make recommendations to ensure safe and proper project protocol. Forms will be returned and the student may conduct the experiment following any of the SRC Chair's recommendations.

STEP 2b: Senior Division: Student Registration, Review, ISEF Forms

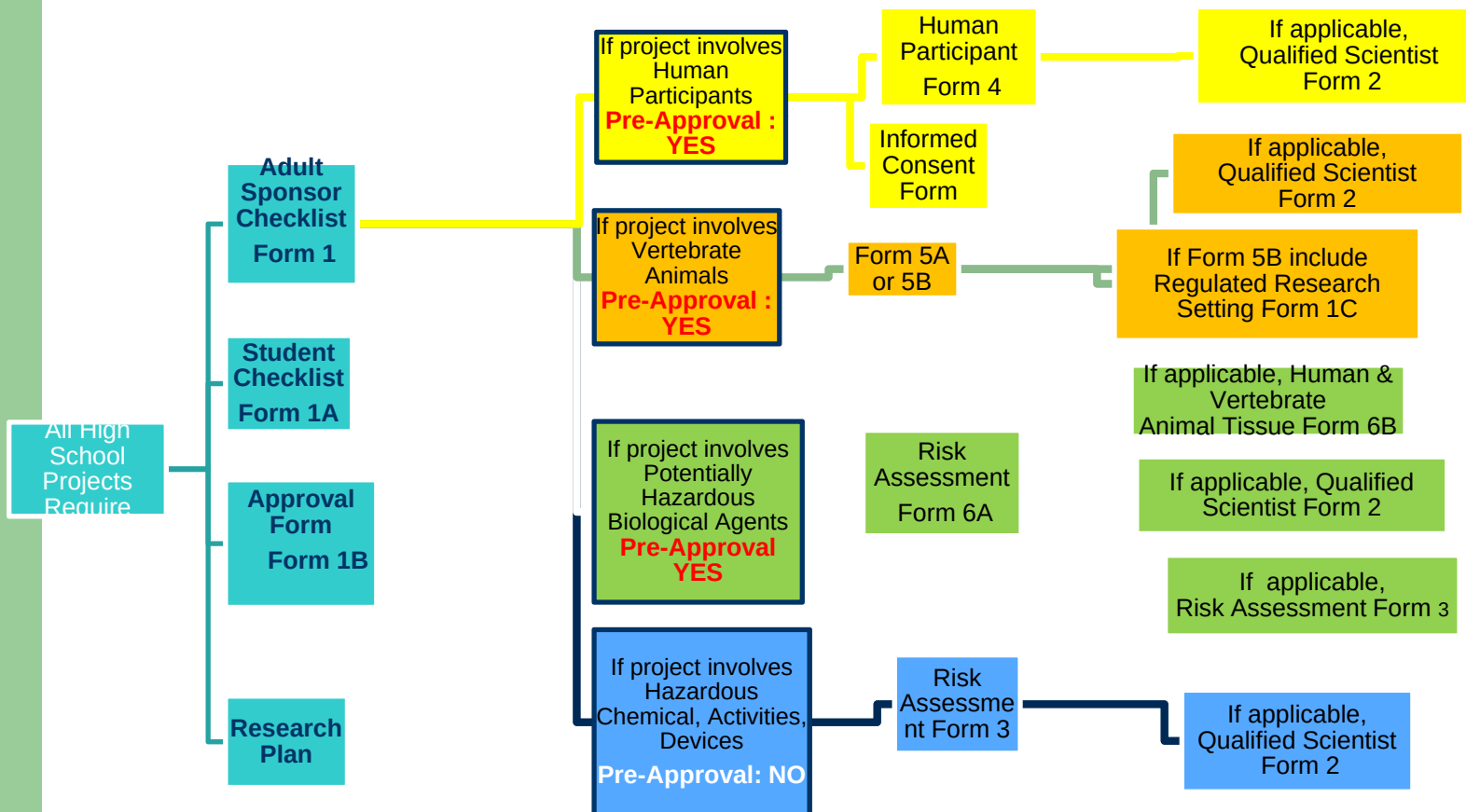
1. **Teachers Register Students** at SEFI registration site: www.sefireg.org
2. **Determine the need for Pre-Experimentation Review** : answer questions at the SEFI website; **YES** answers require **Pre-Experimentation Review**
3. **Complete forms** needed for the project
4. **Proceed with project or submit forms first to IPFW for review by SRC Chair if Pre-Experimentation Review is required**; wait to start project until forms are returned and signed by SRC Chair.

Paperwork Needed for Submission

All projects require the use of ISEF (International Science & Engineering Fair) FORMs which can be found on their website.

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

ISEF Forms: Diagram



FYI: Reminders

- All relevant forms must be turned in by deadlines posted on the IPFW NE Indiana Regional Fair website: www.ipfw.edu/scifair
- Reminder: Seniors use ISEF Forms and Juniors use SEFI Junior Division Form
- 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 Education Liaison: Caryl Spira at spirac@ipfw.edu**

STEP 3: Post Experimentation Review



Junior and Senior Division student procedures

- All students who advance and plan to attend the Regional Fair must submit project forms **after** experimentation and before the Regional Fair by the registration deadline.
- Forms needed for Junior Division:
 - Junior Division Form
 - Research Plan
 - Abstract
- Forms needed for Senior Division:
 - ISEF Forms as required by your project with Abstract

STEP 4: Registration

K-5 Registration



Elementary Registration by March 8

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
Jan. 30, 2013

Post Review Forms: all junior and senior participants must submit forms at the time of registration



Jr./Sr. Post Review and Registration: March 8, 2013

Display must meet requirements

Where can I get support?



Reaching out to Educators:

- Teacher Support
 - Website info. And links
 - Newsletter
 - Email Updates
- Personal Support
 - Educator Liaison: Caryl Spira
 - SRC Chair
- On Line Support
 - Updated Website
 - Fair Regional Updates



Registration

- All registrations for the Regional Fair will take place on the SEFI website:
www.sefireg.org
- All Post-Experimentation Paperwork for Junior and Senior Division will be sent to IPFW
- All Registration Fees will be sent to:

IPFW

Attn: Regional Fair Program Assist. Caryl Spira
2101 E. Coliseum Blvd
Fort Wayne, IN 46805

Eligibility DEADLINES

- Deadline for submission of paperwork for Pre-Experimentation Review
 - **5 p.m., Wednesday, January 30, 2013**
- Deadline for submission of paperwork for Post-Experimentation Review and Jr/Sr Registration:
 - **5 p.m., Friday, March 8, 2013 (6-12 registration)**
- Deadline for Elementary Registration:
 - **5 p.m. Friday, March 8, 2013**

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