ISEF Forms and Potential Hazards Summary
East Central Indiana Regional Science Fair

IMPORTANT NOTE: This document is only a summary of the Intel International Science and Engineering Fair (ISEF) packet. Participants are still responsible for complying with ALL rules in the ISEF packet.

All Senior Division participants MUST use the ISEF packet. Elementary and Junior Division participants with projects involving potential hazards SHOULD use the ISEF packet.

ISEF Rules, Forms, and Resources Website
https://student.societyforscience.org/international-rules-pre-college-science-research

SEFI Registration Website
https://sefi.org/register/

Acronyms
ISEF = Intel International Science and Engineering Fair (international fair organizers)
SEFI = Science Education Foundation of Indiana (state fair organizers)
SRC = Scientific Review Committee
RRI = Regulated Research Institution (post-secondary schools, industries, etc.)

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Are you working with humans? Check out Page 6
Required Forms for All Participants Using the ISEF Packet

To Be Submitted as Soon as You Know You Might Attend:

_____ Form 1: Adult Sponsor Checklist
   • The adult sponsor is the teacher who oversees the participant

_____ Form 1A: Student Checklist

_____ Form 1B: Approval Form
   • Section 1
     o All participants
     o Should be completed and signed by Participant and Parent before beginning project and prior to upload
   • Section 2 (left)
     o Participants requiring prior approval
       ▪ Projects requiring Form 4, 5A, 5B, 6A, or 6B
       o Will be completed by SRC prior to starting project
   • Section 2 (right)
     o Participants with projects conducted at an RRI but not requiring prior approval
     o Will be completed by SRC prior to fair
   • Section 3
     o All participants
     o Will be completed by SRC prior to fair

_____ Research Plan/Project Summary

To Be Submitted Once Project Is Finished:

_____ Abstract
   • Also bring a printed copy to the Regional Fair to display with your poster
### Special Forms Checklist

<table>
<thead>
<tr>
<th>Are You Going to Work:</th>
<th>YES</th>
<th>NO</th>
<th>If &quot;YES&quot;, complete and submit the below:</th>
</tr>
</thead>
<tbody>
<tr>
<td>At a University or Other RRI?</td>
<td></td>
<td></td>
<td>Form 1C</td>
</tr>
<tr>
<td>With a Scientist (someone other than your teacher)?</td>
<td></td>
<td></td>
<td>Form 2</td>
</tr>
<tr>
<td>With Hazardous Chemicals or Devices?</td>
<td></td>
<td></td>
<td>Form 3</td>
</tr>
<tr>
<td>With Human Subjects?</td>
<td></td>
<td>Form 4</td>
<td>Sample Human Informed Consent Form</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>MUST have SRC Approval PRIOR to Start</strong></td>
</tr>
<tr>
<td>With Vertebrate Animals?</td>
<td>Form 5A (conducted at home/school)</td>
<td></td>
<td>-OR-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Form 5B (conducted at RRI)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>MUST have SRC Approval PRIOR to Start</strong></td>
</tr>
<tr>
<td>With Hazardous Biological Agents?</td>
<td></td>
<td>Form 6A</td>
<td><strong>MUST have SRC Approval PRIOR to Start</strong></td>
</tr>
<tr>
<td>With Vertebrate or Human Tissue?</td>
<td></td>
<td>Form 6B</td>
<td><strong>MUST have SRC Approval PRIOR to Start</strong></td>
</tr>
<tr>
<td>On a Project Continued from A Previous Year?</td>
<td></td>
<td>Form 7</td>
<td></td>
</tr>
</tbody>
</table>
What to Do If Project Requires PRIOR Approval

• Upload ALL necessary forms and research plan to the SEFI system before beginning your project
• Send an email to sciencefair@bsu.edu
  o Subject: SRC Prior Approval
  o In the body of the email, let us know you have uploaded all necessary forms for a project that needs SRC prior approval
• SRC chair will collect your materials from the SEFI website and respond to you with your project approval or with steps to obtaining approval
• Once approved, you will be returned the signed Form 1B and any special forms that need SRC chair signature
Working with Microorganisms Form Requirements

Working with microorganisms or with procedures that could generate microorganisms will require special forms in most cases. Please see below for the requirements for common microorganisms.

Requires Form 3

- Microbial fuel cells
- Manure in non-culturing experiments
- Decomposition of vertebrate organisms
- Using coliform water test kits
- Prokaryotic microorganisms known not to be pathogenic, such as archaees and species of bacteria that do not cause disease*
- Eukaryotic microorganisms known not to be pathogenic, such as species of protists, fungi, and algae that do not cause disease*

Requires Form 6A and PRIOR approval by SRC

- Human or animal waste or sewage sludge
- Microorganisms that could cause disease in any organisms (not just humans)
- Genetically modifying any microorganisms

Requires Form 6A, PRIOR approval by SRC, and Written Justification

- MRSA, VSE, KPC, and other antibiotic resistant bacteria

Not Allowed

- Working with ANY potentially hazardous microorganisms at home
- CRE, BSL-3, and BSL-4 organisms at any place

*No special forms are needed for: E. coli k-12 used at a school, Lactobacillus sp. and Bacillus thuringiensis that are not cultured, brewer’s yeast, baker’s yeast, slime molds, edible mushrooms, food molds if terminated at first sign of growth.
Working with Human Subjects Guidelines

The guidelines for working with humans and being able to move on to the state/international fairs are extensive. I am still working on a nice and neat summary for you. -CM