St. Louis Science Fair
2013-2014 Academic Year

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University of Missouri – St. Louis
St. Louis Science Fair

- Two Major Events sponsored by the St. Louis Academy of Science
  - Greater St. Louis Science Fair (GSLSF)
  - Honors Division St. Louis Science Fair

GSLSF - 2012

UMSL Graduate Students lend a hand
St. Louis Science Fair

• Eligibility
  - Students must live in the St. Louis Region
  - Students living in St. Charles/St. Peters compete in the Missouri Tri County Science & Engineering Fair
  - Students living in Jefferson & Franklin County compete in the Mastodon Art and Science Fair
  - Students living in Illinois compete in Illinois State Science Fairs
Greater St. Louis Science Fair

- GSLSF
  - St. Louis Regional Fair (participants must live in St. Louis region)
  - Annual event held at Queeny Park in May
  - Open to students kindergarten to 12 grade
  - Over 1700 projects

For details, see: www.academyofsciencestl.org
St. Louis Honors Division Science Fair

• High school students with honors-level projects can compete in the HONORS DIVISION of the St. Louis Science Fair
  - Scholarship awards
  - Opportunity to represent St. Louis area at the Intel International Science and Engineering Fair (ISEF)
St. Louis Honors Division Science Fair

• St. Louis Regional Fair for honors-level projects (participants must live in the St. Louis region)
• Annual Event held at Missouri Botanical Garden (typically in February)

• Approximately 40-50 participants
• Ten finalists in 2012
St. Louis Honors Division Science Fair

• Top students from the Honors Division Fair
  - may represent the Academy of Science – St. Louis Science Fair at the International ISEF
  - or may opt for scholarship funds

• St. Louis Science Fair offers over $10,000 in scholarship funds to top students
Honors Division Information

www.academyofsciencestl.org

St. Louis Science Fair

NO DATES!!
Deadlines for Honors Fair

- Dates and deadlines will be published in August 2013
- Registration will be in late 2013
- Dates will be similar to last year with the Honors Fair held in early Feb 2014
- The International ISEF will be held May 11-16, 2014 in Los Angeles, CA

VISIT website for updates!
http://www.academyofsciencestl.org/initiatives/science_fair.php
Registration: Honors Science Fair

- Honors Entry Application
  - Available online or from B.C. Hamper (hamperb@umsl.edu)
- Abstract (250 word summary of project)
- ISEF Paperwork
  - Signed and Dated!
  - Identify date of first verbal/written approval
  - Approval for all STARS projects is the first day of research
Approval for your Projects

IF you plan to participate in the Honors Fair:

• STARS participants must complete ISEF safety forms before completing the summer program!
• STARS participants must obtain permission from their advisor to participate in the St. Louis Science Fair
• ALL STARS projects have been approved by:
  - IRB (Institutional Review Board)
  - SRC (Scientific Review Committee)
ISEF Safety Forms

• If students are working with hazardous materials, they should have safety forms completed as soon as possible!

• Safety forms approved/signed by the principle investigator (advisor).

• Approval was granted verbally on the first day of research. The forms need to reflect this date.

Forms can be obtained at:
www.societyforscience.org/isef/document
Additionally, review list below. You may need to submit additional forms based on the nature of your research.

<table>
<thead>
<tr>
<th>Form 1, Adult Sponsor</th>
<th>This form is for your adult sponsor that is overseeing you and your project. ALL HONORS STUDENTS NEED TO COMPLETE THIS FORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form 1A, Student Checklist</td>
<td>This form is the checklist in letting us know the who, what, where, when and how of your project. There is also a paper on completing the research plan for your project. ALL HONORS STUDENTS NEED TO COMPLETE THIS FORM</td>
</tr>
<tr>
<td>Form 1B, Approval Form</td>
<td>This form is the approval form for your project. ALL HONORS STUDENTS NEED TO COMPLETE THIS FORM</td>
</tr>
<tr>
<td>Form 1C, Regulated Research Institutional/Industrial Setting Form</td>
<td>This form is required for studies done in regulated research institution (industrial or university laboratory; not home or school) and is completed by the scientist supervising your research.</td>
</tr>
<tr>
<td>Form 2, Qualified Scientist</td>
<td>This form is for telling us about the Qualified Scientist that is supervising you and your project. It may be required for research involving human subjects, vertebrate animals, potentiably hazardous biological agents, and DEA-controlled substances. This form must be completed and signed prior to the start of your experiment.</td>
</tr>
<tr>
<td>Form 3, Risk Assessment Form</td>
<td>This form is required for projects using hazardous chemicals, activities or devices or regulated substances. Must be completed prior to student experimentation.</td>
</tr>
<tr>
<td>Form 4, Human Participants Form</td>
<td>This form is required for all research involving humans. IRB approval required before experimentation.</td>
</tr>
<tr>
<td>Human Informed Consent (SAMPLE)</td>
<td>Here is an example of an Informed Consent.</td>
</tr>
<tr>
<td>Forms 5A and 5B, Vertebrate Animal Form</td>
<td>These forms are required for all research involving vertebrate animals. The Form 5A is for projects conducted in a Non-Regulated Research Site. (SRC approval required before experimentation.) Form 5B is for required for all research involving vertebrate animals that is conducted at a Regulated Research Institution. (IACUC approval required before experimentation.)</td>
</tr>
<tr>
<td>Form 6A, Potentially Hazardous Biological Agents Form</td>
<td>This form is required for all research involving microorganisms, rDNA and fresh tissue, blood and body fluids. SRC/IACUC/IBC approval required before experimentation.</td>
</tr>
</tbody>
</table>
**ISEF Forms**

- Form 1 – Needs sponsors signature
- Form 1A – Can be completed later
- Form 1B – Required for projects that need SRC/IRB approval.

Which projects need SRC/IRB approval? – Projects involving humans, vertebrates or potentially hazardous biological agents!
More ISEF Forms

Students working in a research lab:

- Form 1C – can be completed after experimentation
- Form 2 – Completed by advisor/principle investigator. Must be completed and signed with initiation date for research.
Even More ISEF Forms

Depending on research, some participants will need:

- Form 3 – Hazardous chemicals, activities, devices, etc.
- Form 4 – Research involving human participants
- Form 5A/5B – Vertebrate animal studies
- Form 6A – Human and vertebrate animal tissue studies
St. Louis Honor’s Division Submission

- Entry Application for Honors Division: Academy of Science – St. Louis Science Fair
  - May be completed after STARS program is completed.
  - Requires signature of sponsor.
  - Due date will be posted later this summer (typically around the end of the calendar year – Dec 2013)

Contact Information:
peggyn@academyofsciencestl.org
Or
hamperb@umsl.edu
What should you do?

• Obtain ISEF forms 1 (1A-C)
• Follow directions of Forms 1A-1C to determine what additional forms are needed
• Complete the St. Louis Honors Division submission form
• Follow the updates:

  http://www.academyofsciencestl.org
  http://twitter.com/AcademyofSciSTL
  http://facebook.com/AcademyofScienceSTL