

COLLEGE OF CHARLESTON



LOWCOUNTRY SCIENCE ▼ FAIR

March 31, 2008

The College Center
at The Complex for Economic Development
Trident Technical College

Awards Ceremony:
Physicians Auditorium
College of Charleston

General Information and Rules Senior Division Grades 9-12

Questions about rules and eligibility contact:

Starr Jordan
81 St. Philip Street, Suite 202A
Charleston, SC 29424

Phone 843.953.7847
Fax 843.953.7850
Email jordans@cofc.edu

Visit the LSF website at <http://www.cofc.edu/lowcountryhall/lsf.htm>

Deadline for registration forms is Wednesday, March 5, 2008

SENIOR DIVISION (Grades 9-12) GENERAL INFORMATION AND RULES

IMPORTANT DATES AND DEADLINES

March 5, 2008 Deadline for all forms (including T-shirt Contest)

March 31, 2008	Lowcountry Science Fair
	Noon – 2:00 PM Setup
	2:00 - 3:00 PM Judges preview
	3:00 PM Judging begins

April 4, 2008	Awards Ceremony
	6:00 PM

SCIENCE FAIR LOCATION

The College Center
at The Complex for Economic Development
Trident Technical College
7000 Rivers Avenue, Bldg 920
North Charleston, SC

AWARDS CEREMONY LOCATION

Physician's Auditorium at the Hollings Science Center
College of Charleston
58 Coming Street
Charleston, SC

REGISTRATION REQUIREMENTS

1. The following forms **MUST** be completed by the exhibitor (student) and signed and submitted to the Lowcountry Regional Science and Engineering Fair (LSF) by the exhibitor's science teacher.

- **Entry Form - NEW FOR 2008:** Each student must complete the Entry Form online at <http://www.cofc.edu/lowcountryhall/lcf.htm>.
- **Checklist – NEW FOR 2008** - must be signed by student and teacher or adult sponsor
- **Form 1 – Checklist for Adult Sponsor / Safety Assessment Form**
- **Form 1A – Student Checklist / Research Plan with Research Plan Attachment**
- **Form 1B – Approval Form** - must be signed by Institutional Review Board (IRB) Chair
Note: Forms 1, 1A, and 1B must be completed, approved, and signed prior to experimentation

TEAM PROJECTS: Each team member must submit an Entry Form & Form 1B but jointly submits Forms 1 & 1A – TEAM. For more information on team projects, please see below.

2. The following forms **MAY** need to be submitted depending on the project. To determine what additional forms are required, please visit the ISEF Rules Wizard at <http://www.sciserv.org/isef/students/wizard/index.asp>.

- Form 1C – *Registered Research Institutional/Industrial Setting Form*
- Form 2 – *Qualified Scientist Form* - requires signature before experimentation
- Form 3 – *Risk Assessment Form*
- Form 4 – *Human Subjects Form* - requires pre-approval from IRB
- Form 5A – *Vertebrate Animal Form* – requires pre-approval from Scientific Review Committee (SRC) – send forms to Starr Jordan
- Form 5B – *Vertebrate Animal Form (Regulated Research Institute)* – requires pre-approval from IACUC
- Form 6A – *Potentially Hazardous Biological Agents Form* – requires SRC/IACUC/IBC/RAC pre-approval
- Form 6B – *Human and Vertebrate Animal Tissues Form* – requires pre-approval
- Form 7 – *Continuation Projects Form*

3. Twenty dollar (**\$20**) registration fee per project. Make checks payable to the: "College of Charleston Foundation." A waiver of the registration fee can be obtained based on student need. Contact LSF director for fee waiver forms. **NEW:** TEAM PROJECTS will be charged the \$20 Registration Fee plus \$5 for each additional team member. For example, a team with 4 members will need to pay \$20 + (\$5 x 3) = \$35. The extra cost is to cover the expense of the additional t-shirt(s).

Eligibility

The Senior Division competition is open to public and private school student in grades 9 – 12 from Berkeley, Charleston, Colleton, Dorchester, and Georgetown counties. Students are selected on the basis of excellence in their school science fair OR by the school's science department. Entry forms must be completed by the student and signed and submitted to the LSF by the student's teacher.

Categories

There are 9 categories: Behavioral and Social Sciences, Biological Sciences (Botany, Microbiology, Zoology), Chemistry and Biochemistry, Engineering, Geology and Environmental Sciences (Earth and Environmental Sciences), Mathematics and Computer Science, Medicine and Health, Physics and Astronomy, and Team Projects. Team Projects may cover any discipline but will compete separately.

Team Projects may cover any discipline but are judged against other team projects. Exhibits must be submitted as a Team Project if more than one student worked on the project, even if the other student(s) will not be able to attend the LSF. To be eligible for the Intel International Science and Engineering Fair (ISEF), teams may have only 2 or 3 members.

Internal Review Board (IRB)

This is a committee appointed by each individual school to evaluate the potential physical or psychological risk of a project involving human subjects. All human research must be reviewed and pre-approved by the IRB before experimentation. This includes any surveys or questionnaires to be used in a project. The IRB should include:

- a. a science teacher
- b. a school administrator
- c. one of the following: a psychologist, psychiatrist, licensed social worker, medical doctor, physician's assistant, or a registered nurse.

Scientific Review Committee (SRC)

This committee is appointed by the LSF director to review and pre-approve experimental procedures for projects involving non-human vertebrates, pathogenic agents (including bacteria from the environment that is potentially pathogenic), controlled substances, recombinant DNA and human/animal tissue to make certain they comply with the ISEF rules and any pertinent laws.

Exhibit Information and Liability

Dimension Limits: 60 cm (24") depth by 122 cm (45") width by 274 cm (108") height.

Provided: Electricity (110AC) provided to exhibit table if requested on Entry Form (completed online). Students must bring own extension cord.

Not provided: No running water or gas is available.

Items that cannot be displayed include the following:

- Living organisms including microbes/fungi/plants
- Preserved vertebrate or invertebrate animals
- Human or animal food
- Human/animal parts or body fluids except teeth, hair, nails or died animal bones, histological dry mount sections, and completely sealed wet mount tissue slides
- Water unless integral to an enclosed apparatus or by special permission of director

- Plant materials (living, dead, or preserved) which are in their raw, unprocessed, or non-manufactured state
- Dangerous chemicals such as poisons, drugs, controlled substances, hazardous substances or devices, etc.
- Flames, explosives, or highly flammable materials
- Sharp items such as syringes, needles, pipettes, knives, etc.
- Photographs or other presentations depicting vertebrate animal in surgical techniques, dissections or lab procedures
- Active Internet or e-mail service
- Taxidermy specimens or parts
- Dry ice or other sublimating solids
- Batteries with open-top cells
- Awards, metals, business cards, flags, acknowledgements, ect.
- **Any item dangerous to the public.**

**Exhibits must be brought, cared for, and removed from the competition by the exhibitor. The LSF director and sponsors will not assume responsibility for loss or damage to any exhibit. Valuables such as computers, cameras, microscopes, etc. should not be left unattended. LSF personnel will dispose of any items left after the competition ends.

Awards - including bonds, prizes, medals and special certificates

- Overall First, Second and Third Place Awards for each Division
- Overall First Place Winner Teacher Award for each Division
- First, Second and Third place Category Awards for each Division
- Discovery Young Scientist Awards
- Many other local, national and international corporation and organization awards
- ALL students receive a signed CERTIFICATE OF PARTICIPATION

Questions about rules and eligibility contact:

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Lowcountry Regional Science and Engineering Fair
Phone 843.953.7847
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College of Charleston
Lowcountry Hall of Science and Math
81 St. Philip Street
Suite 202A
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For complete rules and regulations, please visit http://www.sciserv.org/isef/primer/rules_regulations.asp.