3rd KENT COUNTY SCIENCE FAIR
Guidelines

The third Kent County Science Fair is open to all Kent County students in grades five through twelve who attend a Kent County public, charter, or private school, as well as to home schooled students residing in the county. In order to compete in the fair student projects must be original and completed by the student. They can be individual or team (no more than 3 members). There is not a limit on the number of teams per school, but students cannot be members of more than one team. Team projects will be evaluated using the same rules and judging criteria as individual projects.

Kent County Delaware Science Fair will follow Intel® International Science and Engineering Fair (ISEF) Rules. All projects must adhere to the Kent County Delaware Science Fair’s Ethics Statement and to local, state, and U.S. Federal laws, regulations and permitting conditions. Rules and Regulations can be found at Kent County Science Fair website, www.desu.edu/kentcountysciencefair.

Important Dates

February 5, 2014 Complete Application due including Research Plan
February 12, 2014 Adult sponsors receive official notification
Feb 26, 2014 Set Up at DSU (1:00 pm to 6:00 pm)
Feb 27, 2014 Judging and Science Fair at DSU

Rules and Responsibilities of students and Adult Sponsors

The Student Researcher (s)

The student researcher is responsible for all aspects of the research project with the guidance of the adult sponsor. This includes the hypothesis, the experimentation, engineering, data analysis, and anything else in the project. The completed project must be set up at DSU on February 26, 2014.

The Adult Sponsor

The Adult Sponsor may be a teacher or parent and is directly responsible for overseeing student’s research. The Adult Sponsor is responsible for providing guidance to the student and assessing possible health and safety risk involved with the project. If the research involves human or animal studies or the use of chemicals the Adult Sponsor must review the human participants, risk assessment, vertebrate animals and/or Potentially Hazardous Biological Agents documents that can be found on our website, www.desu.edu/kentcountysciencefair, or ISEF, http://www.societyforscience.org/isef/rulesandguidelines. The sponsor is also responsible for reminding students of deadlines.
Institutional Review Board (IRB) and Scientific Review Committee (SRC)

Each participating institution of the Adult Sponsor might need to constitute an Institutional Review Board (IRB) and/or Scientific Review Committee (SRC) depending on the nature of the projects submitted by students.

The IRB reviews human participants studies. IRB must include an educator, a school administrator and someone knowledgeable about evaluating physical and/or psychological risk: (e.g. MD, PA, RN, psychiatrist, psychologist, licensed social worker or licensed clinical professional counselor) The SRC reviews some projects before experimentation and all projects just prior to competition. SRC must include a biomedical scientist (Ph.D., M.D., D.V.M., D.D.S., D.O.), an educator, and one other member. Institutions might constitute combined IRB and SRC by including the following members: a biomedical scientist (Ph.D., M.D., D.V.M., D.D.S., D.O.), a school administrator, an educator, and someone knowledgeable about evaluating physical and/or psychological risk.

**Application process**

Application Deadline: February 5, 2014 via USPS or hand delivered
Project Submission: February 26, 2014 at DSU

**USPS:**
Attn: Jackie Jones
Delaware State University
1200 N. DuPont Hwy
Dover, DE 19901

**Hand Delivered:**
Attn: Jackie Jones
Delaware State University
1200 N. DuPont Hwy
Luna I. Mishoe Science Center Rm. 219

All student researchers must submit the following documents:

- Complete Application with student's, parent's and Adult Sponsor’s signature.
- Checklist for Adult Sponsor (1)
- Student Checklist (1A) and Research Plan
- Approval Form (1B)
- Official Abstract Form-- Abstracts are limited to 250 words or less and must include: purpose of the experiment, procedure, data, and conclusions. Participants must fit within the predefined area. Please be sure to consult the information from your affiliate fair for the proper formatting of the header information as fairs differ in what is required (or not allowed).
- Regulated Research Institutional/Industrial Setting Form (1C) (28 kb)--This form must be completed by the scientist supervising the student research conducted in a regulated research institution (e.g., university lab, medical center, NIH, SSTP, etc.) or industrial setting. A Research Institution Approval form may need to be supplied by the research site (i.e. IRB/IACUC/IBC).
ALL FORMS MUST BE COMPLETED BY THE APPROPRIATE INDIVIDUALS, SIGNED AND COPIES SUBMITTED TO Jacquelyn Jones, at DSU for local, regional or state competition

USPS: Hand Delivered:
Attn: Jacquelyn Jones Attn: Jacquelyn Jones
Delaware State University Delaware State University
1200 N. DuPont Hwy 1200 N. DuPont Hwy
Dover, DE 19901 Luna I. Mishoe Science Center Rm. 219

Additional forms might be required depending on the nature of your research. Included is a summary. Refer to ISEF for more details (http://www.societyforscience.org/isef/rulesandguidelines).

- **Human Subjects Form (4)** --IRB Form for approval before experimentation. Required for all research involving humans. Informed Consent forms are submitted along with the Human Subject Form. These are required for all subjects under 18 years of age and are required for all projects involving risk; and recommended for all projects involving human subjects. If using surveys, a copy it provided to the IRB for their review as well as a copy to all participants and/or parents if parental permission is required.

- **Qualified Scientist Form (2)**--Required for research involving DEA-controlled substances and potentially; hazardous biological agents; may be required for projects involving vertebrate animals, rDNA, tissues, and/or human subjects. Must be signed prior to the start of student experimentation.

- **Risk Assessment Form (3)** --Required for projects using hazardous chemicals, activities, or devices or DEA-controlled substances.

- **Potentially Hazardous Biological Agents Form (6A)** --Required for all research involving microorganisms, rDNA and fresh tissue, blood and body fluids. SRC/IACUC/IBC approval required before experimentation.)

- **Human and Vertebrate Animal Tissue Form (6B)** --Required for all projects using fresh tissue, primary cell cultures, blood, blood products and body fluids. (If the research involves living organisms, please ensure that the proper human or animal forms are completed.)

Science Project Categories – Descriptions can be found in the following website: (http://www.societyforscience.org/isef/rulesandguidelines

1. Animal Sciences
2. Behavioral and Social Science
3. Biochemistry Cellular & Molecular Biology
4. Chemistry
5. Computer Science
6. Earth Science
7. Eng.: Electrical & Mechanical / Materials & Bioengineering
8. Energy & Transportation
9. Environmental Management / Environmental Sciences
10. Mathematical Sciences
11. Medicine and Health
12. Microbiology
13. Plant Sciences
14. Physics and Astronomy

Display and Set Up

The tabletop dimensions of the display should not exceed:
- Depth (front to back) 20 inches or 76 centimeters
- Width (side to side) 48 inches or 122 centimeters
- Height (bottom to top) 108 inches or 274 centimeters

Abstracts will be displayed with the project. Set up will take place on Wednesday February 26, 2014 1:00 – 6:00 pm – Delaware State University, Martin Luther King (MLK) Student Center, Parlor A and B. Each project will be given a number and a designated display area.

Judging Day – February 27, 2014

8:00 – 8:30 am Registration – MLK 2nd Floor Foyer
8:30 – 9:30 am Judging (for the judges only)
8:30 – 9:30 am Demonstrations by DSU Science Clubs – MLK 2nd Floor Foyer
9:30 – 11:30 am Judging with the students & Teacher workshops*
11:30 – 12:30 pm Lunch Break
12:30 – 1:30 pm Plenary Speaker – MLK Parlor A & B
1:30 – 2:30 pm Award Ceremony

* Teachers, parents and/or adult sponsor will not be allowed in the room during this judging time.