

# 2015 Central Alabama Regional Science & Engineering Fair (CARSEF)

## Team Entry Form

**Incomplete entry forms will not be processed**

PLEASE PRINT CLEARLY OR TYPE

Deadline

January 30, 2015

### Team Participants (up to 3 members):

#### Student 1 \*Team Leader\*

Name of Student \_\_\_\_\_ Age \_\_\_\_\_ Gender \_\_\_\_\_ Grade \_\_\_\_\_

Address (street, city, zip) \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_

#### Student 2

Name of Student \_\_\_\_\_ Age \_\_\_\_\_ Gender \_\_\_\_\_ Grade \_\_\_\_\_

Address (street, city, zip) \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_

#### Student 3

Name of Student \_\_\_\_\_ Age \_\_\_\_\_ Gender \_\_\_\_\_ Grade \_\_\_\_\_

Address (street, city, zip) \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_

School Name/District \_\_\_\_\_ Telephone \_\_\_\_\_

School Address (street, city, zip) \_\_\_\_\_

Sponsoring Teacher \_\_\_\_\_ Email \_\_\_\_\_ Telephone \_\_\_\_\_

Local/school fair participated in/Date \_\_\_\_\_

Project Title \_\_\_\_\_

Which major category letter best describes your project? (Place letter in box)

Category descriptions are on the back of this entry form.

Teams will now compete in the scientific category of their research and will no longer be a separately judged category.

A. Biology (including microbiology)

B. Chemistry (including biochemistry)

C. Engineering

D. Environmental and Earth Science

E. Mathematics and Computer Sciences

F. Medicine and Health Sciences

G. Physical Sciences (including space science)

H. Behavioral and Social Sciences

I. Energy and Transportation

**All applicants to the Regional Fair must complete this entry form along with the following five forms:**

1. Form 1 - Checklist for Adult Sponsor

2. Form 1A - Student Checklist

3. Research Plan/Project Summary

4. Form 1B - Approval Form

5. Abstract and Certification Form

**Our project meets all requirements for entry into the INTEL International Science and Engineering Fair, and we wish to compete for a position at the State or International Fair.**

☐

**Our project does NOT meet all timing or paperwork requirements for entry into the INTEL International Science and Engineering Fair, but we wish to compete for local prizes.**

☐

**We are middle school students and we understand that as such we will be competing for local prizes and entry into the State Fair, but not for entry into International Fairs.**

☐

We certify that we will abide by the regulations of the Central Alabama Regional Science and Engineering Fair (CARSEF). **The project submitted won a 1<sup>st</sup>-3<sup>rd</sup> place prize in a category at a school fair or is being certified by the teacher as representing a school.** Please call if your school fair will be held between January 30 and March 7 for entry into the March 7, 2015 CARSEF.

**Signature of Team Leader:** \_\_\_\_\_ **Team Leader's Parents:** \_\_\_\_\_

**Signature of Sponsoring Teacher:** \_\_\_\_\_

Send completed applications to CARSEF, c/o UAB-CORD, 5<sup>th</sup> Floor CHSB 19, 933 19<sup>th</sup> Street South, Birmingham, AL 35294-2041. For additional information, Call (205)934-5125 (CARSEF office) or (205)934-5171 (CORD main office) or e-mail us at [kjarrett@uab.edu](mailto:kjarrett@uab.edu).

### **CARSEF Category Descriptions**

#### **A. Biology (including microbiology)**

Cell Biology  
Cell and Molecular Genetics  
Immunology  
Molecular Biology  
Antibiotics, Antimicrobials  
Bacteriology  
Microbial Genetics  
Virology  
Animal Development  
Animal Ecology  
Animal Husbandry  
Animal Pathology  
Animal Physiology  
Animal Population Genetics  
Animal Systematics

Plant Systematics, Plant Genetics  
Plant Agriculture/Agronomy  
Photosynthesis  
Plant Evolution

#### **E. Mathematics and Computer Sciences**

Algebra  
Analysis  
Applied Mathematics  
Geometry  
Probability and Statistics  
Algorithms, Databases  
Artificial Intelligence  
Networking and Communications  
Computational Science, Computer Graphics  
Software Engineering, Programming Languages  
Computer System, Operating System

#### **B. Chemistry (including biochemistry)**

General Biochemistry  
Metabolism  
Structural Biochemistry  
Analytical Chemistry  
Inorganic Chemistry  
Organic Chemistry  
Physical Chemistry  
General Chemistry

#### **F. Medicine and Health Sciences**

Disease Diagnosis and Treatment  
Epidemiology  
Genetics  
Molecular Biology of Diseases  
Physiology and Pathophysiology

#### **C. Engineering**

Bioengineering  
Civil, Construction, Chemical, Industrial,  
Electrical, Computer, and  
Mechanical Engineering  
Processing  
Material Science  
Thermodynamics, Solar  
Robotics

#### **G. Physical Sciences (including space science)**

Astronomy  
Atoms, Molecules, Solids  
Biological Physics  
Instrumentation and Electronics  
Magnetics and Electromagnetics  
Nuclear and Particle Physics  
Optics, Lasers, Masers  
Theoretical Physics  
Theoretical or Computational Astronomy

#### **D. Environmental and Earth Science**

Climatology, Weather  
Geochemistry, Mineralogy  
Paleontology  
Geophysics  
Planetary Science  
Tectonics  
Air Pollution and Air Quality  
Soil Contamination and Soil Quality  
Water Pollution and Water Quality  
Bioremediation  
Ecosystems Management  
Environmental Engineering  
Land Resource Management, Forestry  
Recycling, Waste Management  
Plant Development  
Plant Ecology, Plant Physiology

#### **H. Behavioral and Social Sciences**

Clinical and Developmental Psychology  
Cognitive Psychology  
Physiological Psychology  
Sociology

#### **I. Energy and Transportation**

Aerospace and Aeronautical Engineering  
Aerodynamics  
Alternative Fuels  
Fossil Fuel Energy  
Vehicle Development  
Renewable Energies