

District VII
*THE MISSOURI JUNIOR ACADEMY OF
SCIENCE*

ANNOUNCING:

THE 38TH DISTRICT VII MEETING

March 12, 2005

Maryville University, Anheuser-Busch Academic Center
(located at Highway 40 and Woods Mill Road)

1:00p.m. Registration

4:00p.m. Awards Ceremony

Deadline for Entry and Registration for Meeting,
February 11, 2005

THE ANNUAL STATE MEETING

April 15-16, 2005

Lincoln University

Kansas City, Missouri

DISTRICT CO-DIRECTOR

DR. KIMBERLY KILGORE
MARYVILLE UNIVERSITY
13550 CONWAY ROAD
ST. LOUIS, MO 63141

DISTRICT CO-DIRECTOR

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CHRISTIAN BROTHERS COLLEGE HIGH SCHOOL
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What is the Missouri Junior Academy of Science?

The Missouri Junior Academy of Science, a section of the Missouri Academy of Science, is an organization to stimulate and encourage middle and senior high school students with interest in the sciences and mathematics. Students are encouraged to attempt scientific investigations of a significant nature in connection with their regular school work, to prepare written reports and abstracts of their investigations, and to orally present these reports at meetings of the Junior Academy District.

Seven district meetings, arranged by district directors, are held at strategic places over Missouri. Sponsors, parents and friends may attend the district meeting. The highlight of the year's activities is the annual State Academy of Science meeting where six selected papers from each district meeting will be presented. Participants may have a portion of their expenses paid to the state meeting.

Requirements for Contributors

Students may enter the 37th Annual Meeting of District VII, MJAS by submitting a completed copy of the official abstract describing their research to the District Director by **February 16, 2004**. A blank form of this abstract is included on page 4. Other information about preparing and/or presenting a paper may be obtained by writing or calling the District VII Directors. **Participants should bring to the district meeting two complete copies of their report for judges' use.** The student's report and presentation is judged individually on the basis of his/her grade, age and educational experience. **Each oral report is limited to 15 minutes.** Visuals may be used to illustrate points during the presentation. A computer and overhead projector are provided in each room. Slide projectors are available upon request.

Preparation of the Report

The report should be an accurate presentation of a research project conducted by the student in one of the following sections: Biology, Chemistry, Earth Science, Mathematics, Physics, or Social Sciences. It is permissible and even recommended that the student seek advice from teachers, parents, or an adult scientist in the community. The report should be comprehensive; a general guideline is about ten or twelve typewritten pages, double-spaced, on standard 8 1/2 x 11 paper. The report should be presented in a scientific manner, revealing experimentation and/or observations.

Report Format

Effective reporting of a research project is a very important phase of a researcher's work. A research report is different from other types of informative writing in that it has a single, predetermined purpose - to communicate the "what", "why", and "how" of the project plus any conclusions that have been drawn.

The following format is suggested:

- I. Introduction
 - A. Title Page
 - B. Table of Contents
 - C. List of Tables (if any)
 - D. List of Figures (if any)
 - E. Appendix (if any)

- II. Body (Text)
 - A. Statement of Problem (include what led to student interest in this problem)
 - B. Review of Literature
 - C. Hypothesis
 - D. Procedure (How was the work done?)
 - E. Discussion of Results (presentation of numerical data and observations)
 - F. Conclusions (What action do the results indicate?)
 - G. Future Work on the Project (if desired)

- III. Bibliography (What literature have you read that is related to the problem?)

Students are encouraged to use scientific journals and up-to-date texts rather than news media and general reference books (e.g., encyclopedias). Arrange the bibliographical references alphabetically by author. **Internet sources must be included in the bibliography.** (Please make sure these are reputable sources!)

Awards

Certificates and ribbons will be presented at the District Meeting Awards Ceremony. High ranking students will be offered the opportunity to compete at the annual state meeting where selected papers will be eligible for monetary awards. The student may enter his/her paper in other competitive programs at the local, state and national level.

Research Grants

We have again received funding for a maximum of four fifty dollar (\$50) AAAS Research Grants to be awarded in the St. Louis Area. Enclosed is the INITIAL REQUEST APPLICATION form which can be duplicated and distributed to your students. Kindly send the applications to either Ellen Norris or Kimberly Kilgore at the address below by December 2, 2004. The District Co-Directors will send each student a letter affirming/denying the scholarship request sometime in January. As noted on the application form, the basis for evaluation of grant proposals will be the scientific methodology expressed in the abstract, the strength of the references listed, and the strength of the proposal with regard to grade level. Thus the middle school student is equally competitive with one from high school.

MJAS District VII
38th Annual Meeting, March 12, 2005

Maryville University

13550 Conway Road
(Highway 40 and Woods Mill Road - see map)

MISSOURI JUNIOR ACADEMY OF SCIENCE
Entry Deadline: February 11, 2005
Official Report - Abstract Cover Sheet

Student's Name _____ Age _____ Grade _____

School _____ City _____

Home Address _____
Street City Zip Phone

Research Title (as you want it printed)

Subject area in which you wish to enter

Abstract of Paper
(Not to exceed 100 words)
(Please attach)

Please check what type of projection equipment, if any, you will need:

_____overhead projector _____slide projector _____power point

Signature of Student _____ Date _____

Name of Supervising Teacher (please print) _____ Telephone _____

If mentor is other than a teacher, please indicate:

Name Position Institution

Signature of Supervising Teacher _____ Date _____

Send this form and one copy of abstract to one of the MJAS Co-Directors in your district as your entry form. Also, bring two (2) copies of your paper to the meeting.

Dr. Kimberly Kilgore, Co-Director District VII, Maryville University, 13550 Conway Road, St. Louis, MO 63141, 314-529-9432, FAX 314-529-9965, e-mail: kilgore@maryville.edu
Ms. Ellen Norris, Co-Director District VII, 1850 LaSalle Drive, St. Louis, MO 63141, 314-985-6100 X4006, FAX 314-985-6115, e-mail: norrise@cbc-stl.org

This form may be duplicated.

Policy on Use of
DNA/Humans/Other Vertebrates in Research
(Effective July 1992)

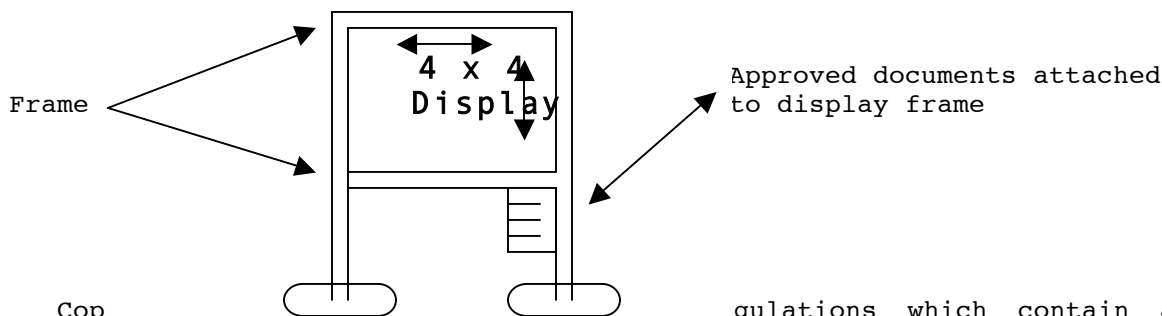
All Middle and - High School students presenting papers/posters at Junior Division-MAS District or Statewide meetings are expected to follow accepted guidelines for the use and care of DNA/humans and other vertebrate animals in research.

Prior to presenting papers/posters at either statewide or district Jr. Division-MAS competition, the student must present written documentation attached to his/her paper/poster that proper guidelines were followed: Acceptable documentation means one or the other of the following:

- 1) Copies of all approved paperwork -- properly dated and signed -- required by the International Science and Engineering Fair (ISEF) for entry by a student into either district or international ISEF-sanctioned competitions or,
- 2) If the student planning to enter a paper/poster into Jr. Division-MAS competition has not entered into ISEF-sanctioned competition, the student is expected to acquire a copy of the current ISEF Rules and Regulations regarding fair competition and follow the specific guidelines, documentation procedures and approved routes explained therein for experimentation involving DNA/humans/other vertebrate animals.

The Jr. Division of MAS will honor research protocols approved in #1 above by a district ISEF affiliated science fair director or in #2 above by one or both of the Jr. Division-MAS co-directors of the Jr. Division district in which the student first enters his/her paper into competition.

All approved documents should be included with the written paper itself and attached to the paper following the "Literature Cited" or "Bibliography" section. Posters displayed at statewide Jr. Division competitions should have copies of the approved documents pinned, stapled, taped, etc. to the lower, right corner of the poster display stand frame, just below the normal 4' x 4' display space allowed for the student display itself (See diagram to follow).



Cop. gulations which contain all documentation forms and specific explanations as to their usage can be obtained from district ISEF-affiliated fair directors, district directors of Jr. Division-MAS or by writing the ISEF directly at:

Science Service
1719 N. Street N.W.
Washington, DC 2003