

## POSTER PRESENTATION JUDGING CRITERIA

### Fifty-first Annual Pennsylvania Junior Science and Humanities Symposium March 20-22, 2016

*Sponsored by the U.S. Army, Navy, and Air Force; the Academy of Applied Science; and Juniata College*

Student: \_\_\_\_\_  
Last name First name Middle initial

Judge's Initials: \_\_\_\_\_

Division: \_\_\_\_\_

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|--|----------------|
| <b>Problem and Hypotheses</b> <ul style="list-style-type: none"><li>• Extent of student's involvement in identifying problem, research questions, and hypotheses is clear</li><li>• Originality shown</li><li>• Builds on research of others (citations included)</li><li>• Hypotheses consistent with problem</li></ul>   | _____<br>_____ |
| <b>Background Information, Prior Research, Resources, Assistance</b> <ul style="list-style-type: none"><li>• Depth of understanding of previous work shown</li><li>• Resources acknowledged</li><li>• Assistance acknowledged</li><li>• Relevant references made to literature</li></ul>   | _____<br>_____ |
| <b>Design of Investigation</b> <ul style="list-style-type: none"><li>• Extent of student involvement evident</li><li>• Problem, research questions, and hypotheses consistent</li></ul>  | _____<br>_____ |
| <b>Investigative Procedures</b> <ul style="list-style-type: none"><li>• Evident that student did observations, measurements, data collection</li><li>• Observation and measurement procedures clearly described</li><li>• Laboratory/field techniques clearly described</li><li>• If appropriate, dependent and independent variables properly identified and managed throughout study</li></ul> | _____<br>_____ |

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|--|--|
| <b>Analysis and Interpretation</b> <ul style="list-style-type: none"> <li>• Processing of data/statistical analysis described and appropriate</li> <li>• Data tables/graphs clear</li> <li>• Data interpreted for reader/listener</li> <li>• Appropriate conclusions drawn</li> <li>• Conclusions do not go beyond the data set</li> </ul>   |  |
| <b>Significance, Applications, Further Research</b> <ul style="list-style-type: none"> <li>• Results related to other studies or extended to other areas</li> <li>• Implications for scientific and/or human importance are made</li> <li>• Appropriate future research suggested</li> </ul>   |  |
| <b>Presentation</b> <ul style="list-style-type: none"> <li>• Clearly presented: problem, hypotheses, background information, acknowledgments, design and procedures, analysis, applications, and suggestions for further research</li> <li>• Presentation well organized, not rushed, easy to follow</li> <li>• Uses tables, graphs, charts, photos, drawings, etc., advantageously</li> <li>• All audiovisual aids easy to read; no data overload presented</li> <li>• Poise, diction, pace, smoothness, timing, appearance appropriate</li> <li>• Responses to questions adequate</li> </ul> |  |
| <b>Total</b>   |  |