Connecticut STEM Fair
Instructions for Judges

Saturday February 9, 2019
Amity Regional High School
25 Newton Road
Woodbridge, Connecticut
STEM Fair 2019 Schedule

7:30 – 8:15 Judges check-in, collect judging materials, meet Team members and have breakfast

8:30 – 9:15 Judges’ Orientation

9:30 – 12:30 Judging of all Exhibits

Lunch (available 12:00 – 1:30)

1:30 Keynote presentation:

Stormy J. Chamberlain, PhD.
Associate Professor Genetics and Genome Sciences
University of Connecticut

followed by Awards presentations
Philosophy and Mechanics

Consistent Scoring  
Constructive Feedback  
On time Finish  

Dignity & Respect for all
Your Role as a Judge

Evaluate

Show Interest

Ask questions

**CONSTRUCTIVE** Feedback ONLY
Student Exhibit Evaluations

25 minutes TOTAL

5-10 minutes: Presentation

5-10 minutes: Q & A

5-10 minutes: Fill out form
Captains are responsible for turning in scores
# Evaluations: color coded

<table>
<thead>
<tr>
<th></th>
<th>Individual</th>
<th>Color</th>
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<tbody>
<tr>
<td></td>
<td>Research Proposal</td>
<td>Science</td>
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<td>Engineering</td>
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<td>Completed Project</td>
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<td>Engineering</td>
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Evaluation Process

PLEASE NOTE: Categories on evaluation forms do not have equal point values
Past Science Fair Eval Scores

Median: 76 - 78
Mode: ~80

<table>
<thead>
<tr>
<th>Approximate Ranges</th>
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<tbody>
<tr>
<td>Outstanding:</td>
<td>95 - 100</td>
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<tr>
<td>Excellent:</td>
<td>90 - 95</td>
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<tr>
<td>Good:</td>
<td>80 - 90</td>
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<tr>
<td>Fair:</td>
<td>60 - 80</td>
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Recent Score Distribution
Captain’s Responsibilities:
You Are Essential

Someone missing?
Let us know

Lead the Process:
• Introduce judges to student
• Manage timing (25 mins/exhibit)
• Check forms: accuracy & completeness

Submit completed forms before going to next project

Check in with Dale Lichtenberg when finished with final project.
Evaluations

<table>
<thead>
<tr>
<th>Scoring</th>
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<tbody>
<tr>
<td>Actual/Maximum</td>
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<tr>
<td>Problem definition</td>
<td>10 / 10</td>
<td></td>
<td></td>
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<tr>
<td>Literature Review</td>
<td>12 / 15</td>
<td></td>
<td></td>
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<tr>
<td>Experimental design</td>
<td>14 / 15</td>
<td>15 / 15</td>
<td></td>
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<tr>
<td>Conduct of study</td>
<td>15 / 15</td>
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<tr>
<td>Interpretation of results</td>
<td>10 / 15</td>
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<tr>
<td>Originality and creativity</td>
<td>4 / 5</td>
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<tr>
<td>Project display</td>
<td>10 / 10</td>
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<tr>
<td>Oral presentation</td>
<td>10 / 10</td>
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<tr>
<td>Total Points</td>
<td>8.9 / 100</td>
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**Completed SCIENCE Project Evaluation**

Feedback (in the form of comments, not point values) from judges will be provided to students. Please check comment(s) as they apply:

- Strong background knowledge demonstrated
- Good presentation despite time limit

**Problem definition (10 points maximum)**
- S/A: W Abstract sufficiently describes the project - problem and goal.
- S/A: W Demonstrates an understanding of scientific problem-solving methods.
- S/A: W Problem was sufficiently framed.

**Literature review (15 points maximum)**
- S/A: W Includes significant research into similar topics.
- S/A: W Includes scientific, credible sources.
- S/A: W Includes the literature review.

**Experimental design (15 points maximum)**
- S/A: W Experimental design is appropriate for the problem and goal.
- S/A: W Scope of project was reasonable.
- S/A: W Alternative approaches to the proposed research were considered / discussed.

**Conduct of study (15 points maximum)**
- S/A: W Experimental design was properly implemented.
- S/A: W Data collection methods were clearly defined and followed.
- S/A: W Study variables were controlled.

**Interpretation of results (20 points maximum)**
- S/A: W Conclusions are logical and are clearly supported by the data.
- S/A: W Possible alternative explanations were considered and eliminated.
- S/A: W Limitations of the data are understood.
- S/A: W Student has an idea of what further research is indicated.
- S/A: W Student provides written documentation of lab work (i.e., lab notebook).

**Originality and creativity (4 points maximum)**
- S/A: W Aims of investigation are original.
- S/A: W Project approach is creative.

**Project Display (10 points maximum)**
- S/A: W Clearly presents data and results. Data is well organized.
- S/A: W Poster highlights relevant information.
- S/A: W Tables, graphs and illustrations are used effectively.

**Oral presentation (10 points maximum)**
- S/A: W Outstanding presentation - well-organized, thorough and clear.
- S/A: W Student’s ownership/originality was clearly expressed.
- S/A: W Presentation was well-rehearsed and followed a logical order.
- S/A: W Presentation was completed within the allotted time following the initial presentation.
- S/A: W Student maintained good eye contact with judges.

**Comments:**

Good presentation despite time limit

Southern Connecticut Invitational Science & Engineering Fair

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**Seen by student AFTER the fair**

**Seen ONLY by scorers**
Video

Exhibitor: A.J Scheetz
Captain: Michael Opuszynski
Judges: Ruth Montgomery
  Bridget Oei
THANK YOU