



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:

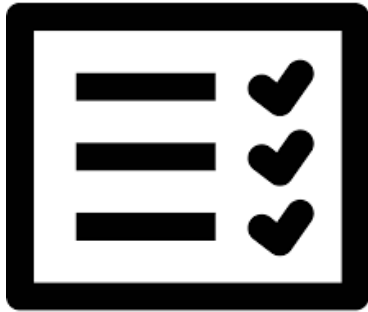
Stormy J. Chamberlain, PhD.

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

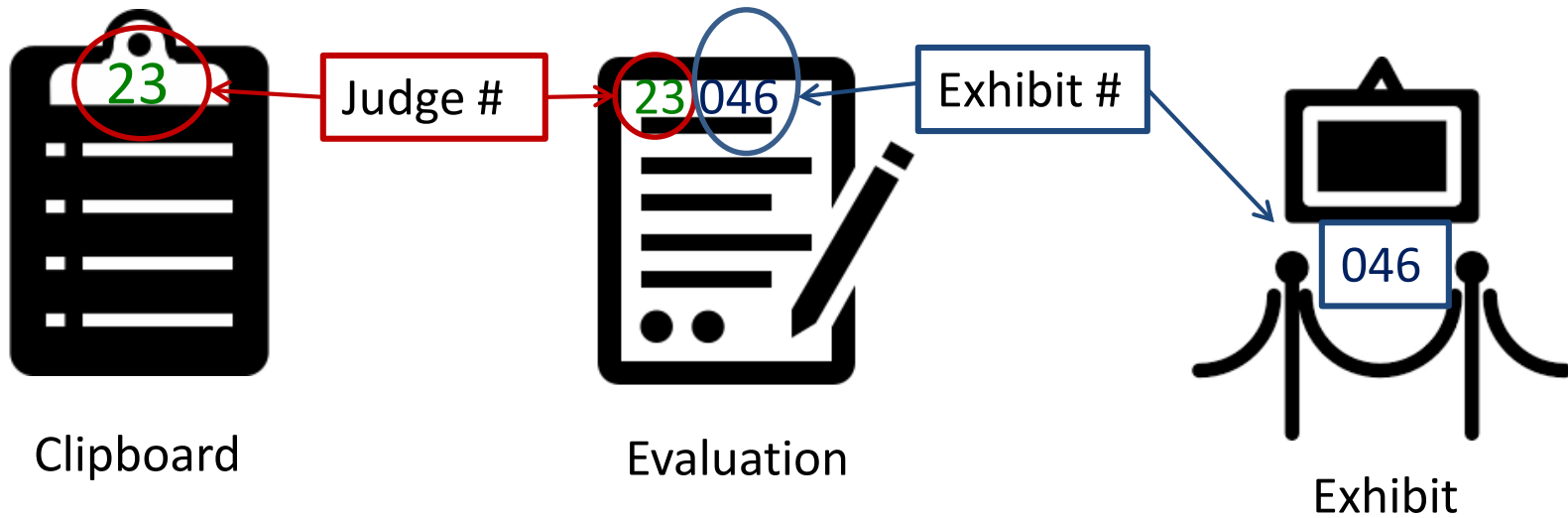


5-10 minutes: Q & A



5-10 minutes: Fill out form

Evaluations

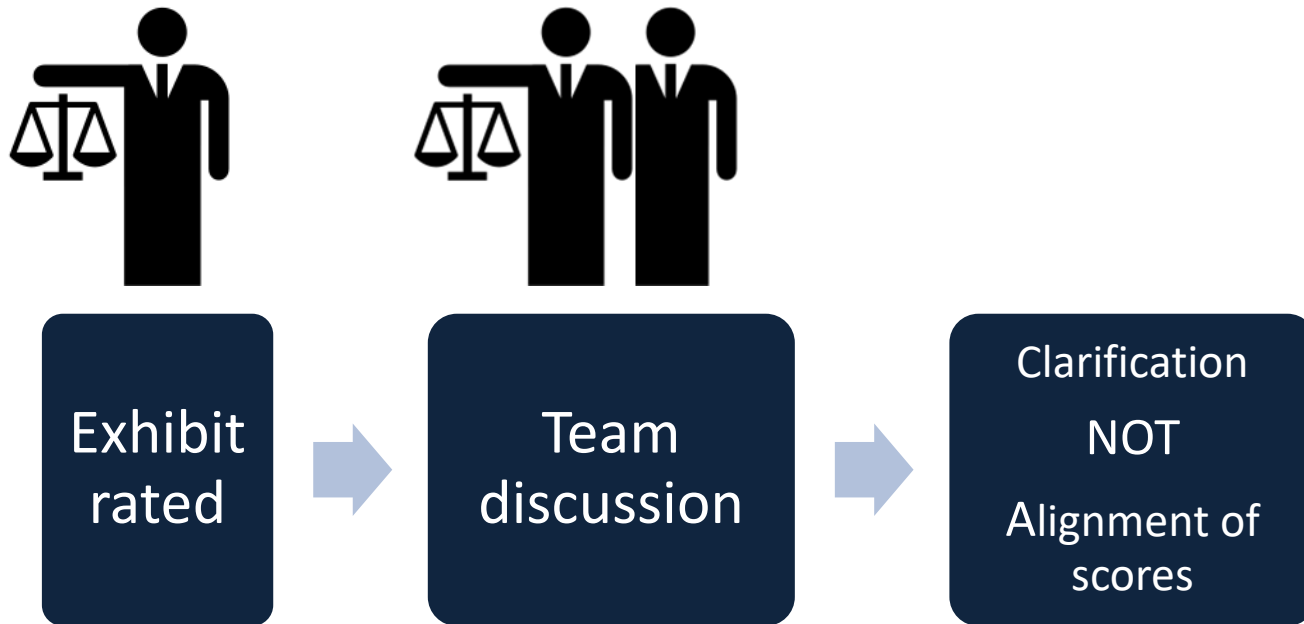


Captains are responsible for turning in scores

Evaluations: color coded

			Color
Individual	Research Proposal	Science	white
		Engineering	green
	Completed Project	Science	canary
		Engineering	blue
Team	Research Proposal	Science	ivory
		Engineering	ivory
	Completed Project	Science	ivory
		Engineering	ivory

Evaluation Process



PLEASE NOTE: Categories on evaluation forms do not have equal point values

Past Science Fair Eval Scores

Median: 76 - 78

Mode: ~80

Approximate Ranges

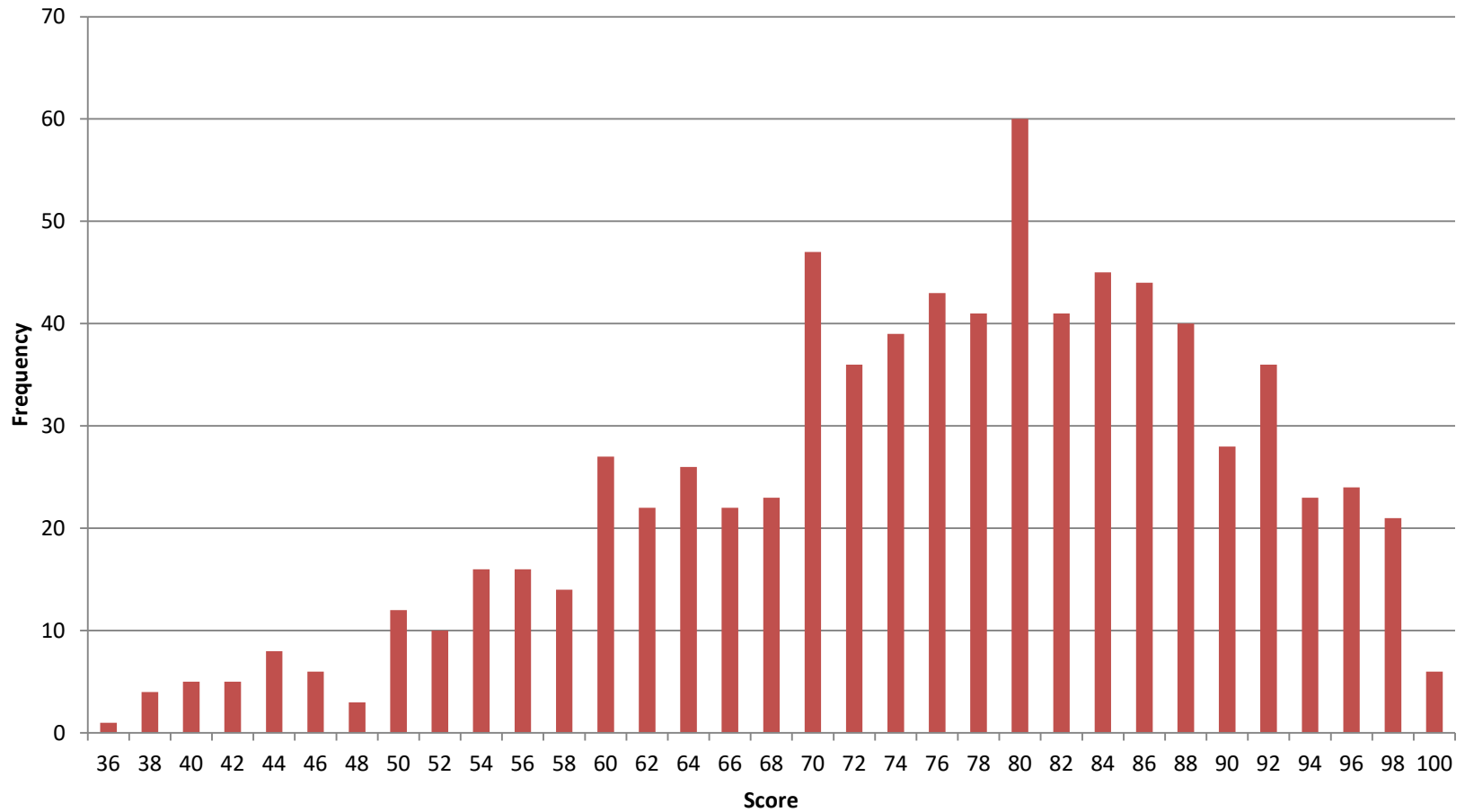
Outstanding: 95 - 100

Excellent: 90 - 95

Good: 80 - 90

Fair: 60 - 80

Recent Score Distribution



Captain's Responsibilities: You Are Essential



Someone missing?
Let us know

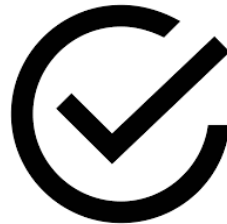


Lead the Process:

- 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

Seen ONLY by scorers



Team: 8
 Judge: 94
 Order: 1

Scoring	
Actual	Maximum
10	10
12	15
14	15
15	15
16	20
4	5
10	10
8	10
89	100

Exhibit No: 15

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 Acceptable Weak

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. *Include more scientific sources.*
 S A W Incorporates recent sources.
 S A W Includes scientific, credible sources.

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.
 S A W Experiment was repeated several times to establish validity, reproducibility.

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 (5 points maximum)
 S A W Area of investigation is 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.
 S A W Poster board is neat/uncluttered.

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.
 S A W Judges' questions were effectively anticipated and succinctly answered following the initial presentation.
 S A W Student maintained good eye contact with judges.
 S A W Student was easy to hear and understand.

Comments: Strong background knowledge demonstrated. Could emphasize novelty of project. Good presentation skills. Which time limit Applications to society?

Seen by student AFTER the fair



Video

Exhibitor: A.J Scheetz

Captain: Michael Opuszynski

Judges: Ruth Montgomery

Bridget Oei

THANK YOU

