District 7 Science Day

hosted by

Columbus State Community College

Judges' Guide

Welcome:

Thank you for agreeing to serve as a judge at the District 7 Science Day hosted by Columbus State Community College. We appreciate your time and effort in making this a productive, educational experience for the student participants.

Assembly:

Judges and volunteers will check in and go through a brief orientation at the following locations:

General Project Judges with Mary Ann Hartley at 8:00 – Nestor Hall (NH) Auditorium

Sponsored Awards with Eric Kenz at 8:30 – Delaware Hall (DE) 121

CSCC Awards with Jeanette Ferguson at 8:30 – Delaware Hall (DE) 121

Tally Room with Larry Hohman and Randy Mogg – Union Hall 278

Judging Standards:

Examples of the score cards are on page 5 and 6 of this document.

Those wishing to learn more about judging standards can consult the guide provided by the Ohio Academy of Science. It is available at:

http://www.ohiosci.org/s/SSD-standards.pdf There is a link to this site on our web site.

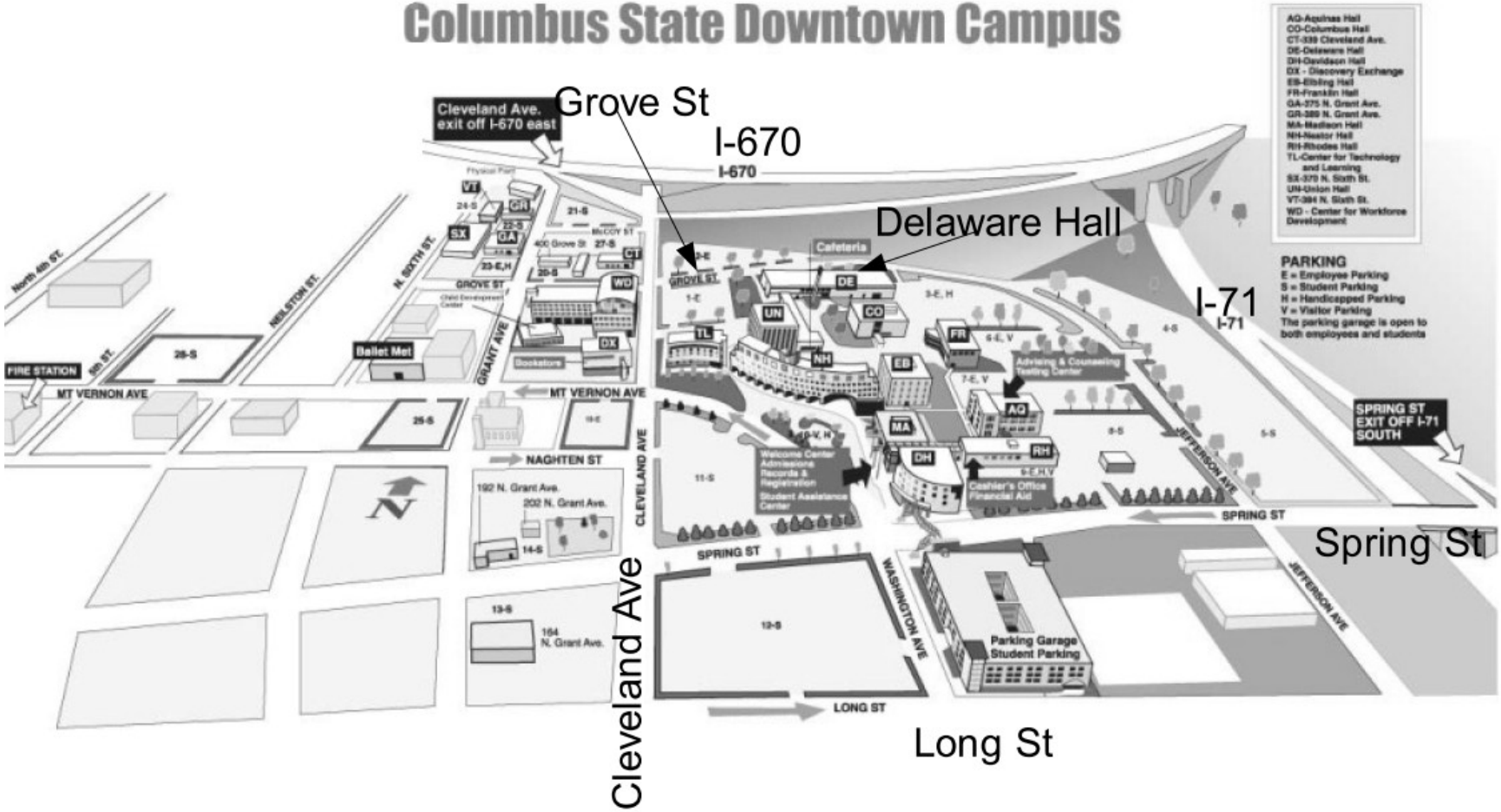
Directions:

A map of the campus and vicinity can be found on page 3.

from the North:
follow I-71 South to Spring St exit
turn right onto Spring St
turn right onto Cleveland Ave
turn right onto Grove St

from the South:
follow I-71 North to Broad St exit
turn left onto Broad St
turn right onto Cleveland Ave
turn right onto Grove St

from the West:
follow I-70 East to I-71 North
follow I-71 North to the Broad St exit
turn left on Broad St
turn right onto Cleveland Ave
turn right onto Grove St



Grove Street
Entry A
Entry B
Entry C
Entry D
Auto Shop
GYM
E
D
C
B
F
G
aud. 121
A
L
rest-rooms
Public Safety
K
J
I
H
Cafeteria
to Union
to Nestor Auditorium
N

The **OHIO ACADEMY** *of* **SCIENCE**

Local, District and State Science Day Judging Card

INDIVIDUAL

 [The following space may be used for student's name, space assignment, project title or other administrative information.]

JUDGING CRITERIA

POINTS BULLETS DO NOT HAVE A PRE-DETERMINED NUMERICAL VALUE.

_____1. KNOWLEDGE ACHIEVED (10 points maximum)

- Correct use and understanding of terms and principles
- Project exceeds classroom level for the student's grade level based upon the judge's opinion
- Adequate depth of knowledge
- Literature search: extent of scientific, engineering or medical journals /sources or just popular literature citations
- Supplements answers with additional relevant information

_____2. USES OF SCIENTIFIC METHOD or TECHNOLOGICAL DESIGN (10 points maximum)

- Experimental design: specific problem or question, clearly stated hypothesis or technological design statement; clear method(s) with correctly defined and measured variables and controls; sufficient understanding of methods from related studies in the literature
- Data handling, data tables, graphs, statistics; sufficient number of trials or samples for the problem
- Valid conclusion(s) or discussion of results
- Well-documented lab journal/data record book
- Student effectively used professional equipment or correctly constructed/used home-made apparatus, equipment, experimental materials or models

_____3. CLARITY OF EXPRESSION (10 points maximum)

- Abstract with clear statement of results
- Written report: unambiguous title, organization, results, correct grammar and spelling, citations, references
- Visual display: neatness, conveys essence of the idea, hypothesis or design statement, results and conclusion(s)
- Oral presentation: understanding or from memory; questions answered correctly and clearly

_____4. ORIGINALITY & CREATIVITY (10 points maximum)

- New idea, concept, principle, hypothesis, insight or non-obvious approach or problem definition
- Novel association or relationship of previous discoveries or knowledge
- Rigorous and exhaustive analyses of extensive or robust data or results that reveal previously unknown relations
- Inquiry or design-based rather than a summary of knowledge

_____TOTAL POINTS

CIRCLE RATING: Superior Excellent Good Satisfactory

Minimum score for INDIVIDUAL projects at Local or District Science Days: SUPERIOR: 36 points, EXCELLENT: 24 points, GOOD: 12 points, *SATISFACTORY: 4 points (*not used at State Science Day).

Minimum score for State Science Day: SUPERIOR: 36 points, EXCELLENT: 24 points, GOOD: 12 points

JUDGE'S Printed Name _____ Signature _____

JUDGES MUST ADD COMMENTS ON BACK: Please add your comments about the project. Students especially look for constructive criticism to improve the project for future science days.

The **OHIO ACADEMY** *of* **SCIENCE**

TEAM

Local, District and State Science Day Judging Card

 [The following space may be used for students' names, space assignment, project title or other administrative information.]

JUDGING CRITERIA

POINTS BULLETS DO NOT HAVE A PRE-DETERMINED NUMERICAL VALUE.

_____1. KNOWLEDGE ACHIEVED (10 points maximum)

- Correct use and understanding of terms and principles
- Project exceeds classroom level for the student's grade level based upon the judge's opinion
- Adequate depth of knowledge
- Literature search: extent of scientific, engineering or medical journals /sources or just popular literature citations
- Supplements answers with additional relevant information

_____2. USES OF SCIENTIFIC METHOD or TECHNOLOGICAL DESIGN (10 points maximum)

- Experimental design: specific problem or question, clearly stated hypothesis or technological design statement; clear method(s) with correctly defined and measured variables and controls; sufficient understanding of methods from related studies in the literature
- Data handling, data tables, graphs, statistics; sufficient number of trials or samples for the problem
- Valid conclusion(s) or discussion of results
- Well-documented lab journal/data record book
- Student effectively used professional equipment or correctly constructed/used home-made apparatus, equipment, experimental materials or models

_____3. CLARITY OF EXPRESSION (10 points maximum)

- Abstract with clear statement of results
- Written report: unambiguous title, organization, results, correct grammar and spelling, citations, references
- Visual display: neatness, conveys essence of the idea, hypothesis or design statement, results and conclusion(s)
- Oral presentation: understanding or from memory; questions answered correctly and clearly

_____4. ORIGINALITY & CREATIVITY (10 points maximum)

- New idea, concept, principle, hypothesis, insight or non-obvious approach or problem definition
- Novel association or relationship of previous discoveries or knowledge
- Rigorous and exhaustive analyses of extensive or robust data or results that reveal previously unknown relations
- Inquiry or design-based rather than a summary of knowledge

_____5. TEAMWORK subtotal points (maximum of 10)

- All members have shown active participation and understanding of the entire project
- Team members participate equally in presentation
- Individual expertise or contributions are explained
- All team members participate in correctly and clearly answering questions

_____TOTAL POINTS

CIRCLE RATING: Superior Excellent Good Satisfactory

Minimum score for TEAM projects at Local or District Science Days: SUPERIOR: 45 points, EXCELLENT: 30 points, GOOD: 15 points, *SATISFACTORY: 5 points (*not used at State Science Day). Minimum score for State Science Day: SUPERIOR: 45 points, EXCELLENT: 30 points, GOOD: 15 points

JUDGE'S Printed Name _____ Signature _____

JUDGES MUST ADD COMMENTS ON BACK: Please add your comments about the project. Students especially look for constructive criticism to improve the project for future science days.