

# 2009 Rules and Entry Form

## Division I and II How To Enter

### Division I High School Programs / 18 Years Old and Younger

- Any student 18 years old or younger enrolled in a shop course in any type of school or training program.
- An individual or a group of no more than five persons may submit a paper.

### Division II Career Students / 19 Years Old and Older

- Any student over 19 years of age other than a college student studying for a Bachelor's or Master's Degree is eligible to participate. Eligible students may be enrolled in evening adult classes, high schools, vocational schools, private trade schools, in-plant training classes, technical institutes, junior, community or 2-year college courses or apprentice programs.
- An individual or a group of no more than five persons may submit a paper.

#### What To Enter?

An arc welded project made by the entrant or entrants. The project may be either (a) home, artistic or recreational equipment, (b) a shop tool, machine or mechanical device, (c) a structure, (d) agriculture equipment, or (e) a repair.

The paper should be a clear step-by-step description of how the project was made. The length should be limited to no less than 3 pages and no more than 25 with only as many illustrations as needed to explain details.

#### How To Prepare A Paper

##### Entry Requirements:

The form in which the paper is submitted should conform to these conditions:

1. Your name or the name of your school should not be listed anywhere in your paper.
2. Double space type on only one side of an 8-1/2" x 11" sheet whenever possible.
3. Drawings, photographs and sketches are encouraged. Photographs should be neatly mounted. Large drawings should be folded to an 8-1/2" x 11" size.
4. Using a suitable cover and title page, bind the material into a report folder. Include the Entry Form as the first page.
5. Models or specimens may not be submitted.
6. Submit only one copy of the paper.

#### Use of Entry Form

The Jury of Awards judges the papers anonymously. The identity of the entrant or entrants will not be known to any member of the Jury. Be sure that your name or school's name is not listed in the paper. If any member of the Jury does recognize a paper, they will disqualify themselves from judging that paper.

The use of the Entry Form which is a part of this booklet makes this possible. Staple, clip, or bind the completed Entry Form to the first page of the paper. Be sure that the title of your paper appears on both the Entry Form and the first page of the paper.

Upon receipt of the paper in Cleveland, the Entry Form will be removed by the Secretary of the Foundation, and the paper bearing only an identifying number will be forwarded to the Jury of Awards.

#### Who Will Judge the Papers?

The Jury will consist of educators, professional people or people in industry under the selection and direction of its Chairman Dave Manning of Fanuc Robotics in case of his failure to act, a person will be selected by the Trustees of The James F. Lincoln Arc Welding Foundation. The decisions of the Jury of Awards shall be final.

#### Time

The written Entry must have been completed within the period of June 1, 2008 to June 1, 2009. Entries must be postmarked no later than June 1, 2009. All Entries and communications should be addressed to:

Secretary:  
The James F. Lincoln Arc Welding Foundation  
P.O. Box 17188  
Cleveland, Ohio 44117-9949

#### How Will the Papers Be Judged?

The Jury of Awards will judge papers on their content, not their length, using the following factors for judging:

1. The practicality or usefulness of the project or problem.
2. How well the use or knowledge of arc welding was applied.
3. The skill and ability with which the project or problem was completed.
4. How clearly the project or problem is described.
5. How well the paper conforms to the Entry Requirements.

#### How is the Award Divided Among a Group?

If an award is made to a co-authored paper each author will receive a check dividing the award equally unless otherwise indicated on the Entry Form.

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## Division I and II

### What Happens To the Papers?

#### Other Uses of the Papers

All papers become the property of The James F. Lincoln Arc Welding Foundation. The Foundation shall have the right, in its discretion, to publish or otherwise use the papers, and in such case will give credit to the author.

Should an entrant wish to submit a paper in another competition or to retain a commercial interest, or to offer it for publication by others, such wishes must be clearly noted on the Entry Form. Such other use will in no way influence the judging of the papers in this Award Program.

The Foundation is interested in the development of the technology and education in arc welding. It is not in any way interested financially in the work described in a paper.

#### Appearance of Papers:

- Paper bound correctly
- Consistent font size and line spacing
- Paper format consistent
- Various aspects of paper clearly labeled (i.e.: Introduction, Tool List, BOM, conclusion. . .)
- Submit entire project no more than 13 pages & 1 photo. Download in PDF format or mail.

#### Safety:

- Complete listing of all safety devices used
- Description of how safety devices operate and are used
- Proper use of safety during the project fabrication process - as shown by pictures and description

#### Welding Parameters:

- Identify various welding parameters (i.e.: WFS, voltage, amperage, travel speed, CTWD, travel angles. . .)
- Correct welding process description
- Correct filler material nomenclature (electrode or rod)
- Identify shielding gas type and composition
- PQR, WPS - documentation

#### Can you build from this print:

- Does the print provide enough information to actually build the project
- Is project shown in enough views
- Straight edge used on sketches
- Correct drafting practices used
- Use of welding symbols
- Complete BOM
- Material "purchase" list and "cut" list

#### Are steps in order:

- Does project follow logical sequence
- Is planning and drawing mentioned towards the project beginning
- Are steps clearly described
- Are pictures used to assist step description

#### Tool List:

- Complete listing of all tools used
- Description of how tool operates and is used
- Proper use of tools during the project fabrication process - as shown by pictures and description

#### Difficulty Level:

- How elaborate is task

#### Effort in Project:

- Are drawings done correctly
- Are sketches clear and legible (use of straight edge)
- Correct spelling & grammar
- Are pictures well taken
- Is write up complete and detailed

#### Extra Points:

- Over and above paper/project requirements



Division I and II for 2008 — (left to right): Brent Emerson, Cajan Seeger, Brian White, Matt Hayden, Jeffrey Carney, Dusty Walker.

# 2009 Rules and Entry Form

## Division I and II

### Division I High School Programs / 18 Years Old and Younger

**National Winners**      **Student Award**      **Student Award**      **Instructor Award**

(To be selected from among all entries.)

|            |           |         |        |
|------------|-----------|---------|--------|
| (1) Gold   | \$1000.00 | Welder* | Welder |
| (1) Silver | \$ 750.00 | Welder  | Welder |
| (1) Bronze | \$ 500.00 | Welder  | Welder |

The top 10 Division I schools based upon total entries will each receive their choice of CD based training materials for either SMAW, GMAW, GTAW, SAW, FCAW or Oxy-fuel Welding and Cutting.



### Regional Winners

(To be selected from among entries in 4 separate geographic regions)\*\*  
Regions I, II, III and IV EACH receive the following awards:

|               |          |        |        |
|---------------|----------|--------|--------|
| ( 1) Gold     | \$500.00 | Welder | Welder |
| ( 2) Silver   | \$250.00 |        |        |
| ( 3) Bronze   | \$100.00 |        |        |
| (40) Merit*** | \$ 25.00 |        |        |

\* The welder will be a 110V industrial grade MIG machine.

\*\* Regions — All papers must be submitted in one of the four regional divisions. States comprising each region are listed below. All entries compete for Grand National and National Awards. The Grand Award winners will not be in competition for the regional awards.

I. Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, New Jersey, Delaware, Maryland, West Virginia, Ohio, Indiana, Illinois, Wisconsin, Michigan, Washington D.C.

II. Kentucky, Virginia, North Carolina, South Carolina, Tennessee, Mississippi, Alabama, Georgia, Florida, Puerto Rico, Virgin Islands, Arkansas, Louisiana, Oklahoma, Texas.

III. Alaska, North Dakota, South Dakota, Nebraska, Kansas, Missouri, Iowa, Minnesota.

IV. California, Nevada, Utah, Arizona, Colorado, New Mexico, Hawaii, Washington, Oregon, Montana, Idaho, Wyoming.

\*\*\* Merit Awards  
\$25 each will be made to Entries of Merit, as determined by the Jury of Awards, regardless of Region. A total of \$8,000 will be available in Merit Awards.

### Division II Career Students / 19 Years Old and Older

**National Winners**      **Student Award**      **Student Award**      **Instructor Award**

|             |           |         |        |
|-------------|-----------|---------|--------|
| ( 1) Gold   | \$1000.00 | Welder* | Welder |
| ( 2) Silver | \$ 500.00 |         |        |
| ( 3) Bronze | \$ 250.00 |         |        |
| (40) Merit  | \$ 25.00  |         |        |

The top five Division II schools based upon total entries will each receive their choice of CD based training materials for either SMAW, GMAW, GTAW, SAW, FCAW or Oxy-fuel Welding and Cutting.

\* The welder is a 110V industrial grade MIG machine.