

2010 ATMAE Conference
Student Virtual Welding Competition
Sponsored by Lincoln Electric

Thursday 10/28, during morning and afternoon exhibit hour
Friday 10/29, morning exhibit hours only
At the Lincoln Electric Booth in the Exhibitors Corridor



ATMAE student members are invited to try their hand at virtual welding in this 2-day competition sponsored by Lincoln Electric and the ATMAE Student Division. The top competitors win a Lincoln Electric Power MIG 140C - 115V MIG welder, worth over \$750! All equipment and materials provided. Participation is free - just go to the Lincoln Electric booth in the Exhibit Corridor. Let us know if you want to compete by an email to Sergio.Sgro@eku.edu.

- ATMAE Student members only; 2-year, 4-year and graduate students are all welcome.
- No experience is required; participants may want to try welding beforehand
- Participants will use the Lincoln Electric VRTEX 360™.
- There will be only one level to the competition. We will be using Lincoln Electric's new virtual-reality training platform for the welding competition.
- Task: TBA – Could be a Lap joint or T joint as planned for 2009, but may be changed.
- Each participant will have 1 practice run followed by the welds of number 2 above (they are allowed a retake afterwards as long as the line doesn't include a first-try participant).
- Total time in the welding booth: Approximately 3- 4 minutes.
- Contest personnel will keep track of the number of welding sessions a competitor has had (limit of 3).
- Judging will be by visual inspection only by Lincoln Electric personnel, on the spot after the welding is done. See below for the judging rubric.
- The current competition leader's name will be posted and continually updated as competitors take the lead during the competition.
- Supervision: A Lincoln Electric employee or an ATMAE Student Division representative will be on hand to monitor the competition.
- Virtual Welding helmet and VR Set-up will be for students to use while welding.
- **Grand Prize: One Lincoln Electric Power MIG 140C - 115V Welder (Retail Value in excess of \$750; unit will be shipped by Lincoln Electric to the winner after the conference.)** Other prizes: cash, hardware, software and books or manuals.

Welding Contest Judging Rubric:

- The rubric **consists of a standard visual inspection used to** evaluate weld quality.
- The Lincoln Electric VRTEX 360™ will compute a score based on the criteria needed to make a good weld.
- The virtual reality system will determine who has the best welding technique and the best weld with no discontinuities.