

Autonomous Snowplow Competition



**ION North Star Section
Outreach Program**

Autonomous Snowplow Committee



**Final Report Information & Outline
2011-12 Competitors**

January 1, 2012

Final Report Rules

- Final reports are suggested to follow the provided outline
 - Standardized judging for all Teams
- Final report page length
 - 12 page maximum, double column format
- Final report format
 - ION conference paper format
 - See provided *ION Format Template* document
 - Website
 - www.autosnowplow.com

Final Report Rules

- Final reports submission deadline
 - January 23, 2012 (**extended to Monday**)
 - Time: 12 pm (noon) CDT
 - Email submission: vibhor.bageshwar@honeywell.com
 - Please submit a PDF formatted version of the presentation to minimize file size
- Final report scoring
 - Final Presentation scoring: 10% of the total Competition score
 - Final Report scoring will be completed before Final Presentations
 - Final Report scoring is independent of Final Presentations
 - Team standings will be updated by January 28, 2012
 - Website
www.autosnowplow.com
 - ASC Scoring Board at the Competition Venue

Final Report Outline

- Abstract
- Introduction
- Top Level Requirements
 - Include a summary table
- Snowplow Vehicle Design
 - Concept/Plowing strategy
 - Snowplow vehicle design
 - Navigation system design
 - Guidance system design (if applicable)
 - Control system design
 - Processor & Software design
 - System integration
- Safety System
- Failure Modes and Recovery Actions
- Conclusions & Recommendations
- Acknowledgments
- References

