

Autonomous Snowplow Competition



**ION North Star Section
Outreach Program**

Autonomous Snowplow Committee



**Final Report Information & Outline
2014-15 Competitors**

December 2014

Final Report Rules

- Final reports: Teams are requested to follow the given outline
 - Standardize judging for all Teams
 - ASC Committee hint:
 - *Judge's scoring form follows the outline exactly – ensure that the Section headings of the Final Report match the Section names given in the outline*
 - *Teams will not score points if Sections of the given outline are not addressed*
 - *Example: Teams that do not address their Safety System will receive 0 points for that Section*
- Final Report page length
 - 10 page maximum, double column format (see below)
 - Judges will only read the first 10 pages if a submitted report is greater than 10 pages
- Final Report format
 - ION conference paper format
 - ASC website provides format: “Final Report Style Sheet and Format”
http://www.autosnowplow.com/2013_Event_and_Results.html

Final Report Rules

- Final Reports submission deadline
 - Date: 19 January 2015
 - Time: 12 pm (noon) Central time
 - Email submission: vibhor.bageshwar@honeywell.com
 - Please submit a PDF version of the Final Report to minimize file size
- Final Report scoring
 - Final Report 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 24 January 2015
 - 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
 - Control system design
 - Processor & Software design
 - System integration
- Safety System
- Failure Modes and Recovery Actions
- Vehicle Design Challenges (highlight changes from existing design)
- Commercialization & Implementation
- Conclusions & Recommendations

Final Report Scoring

- Final Report scoring: 10% of the total Competition score

Category	Scoring
Requirements Definition	100
Technical Content	100
Originality & Innovation	125
Practical Application	100
Quality	75
Total Points	500