



EXPERIMENTAL SOUNDING ROCKET ASSOCIATION

665 N 400 EAST, LOGAN UT 84321

www.soundingrocket.org

Intercollegiate Rocket Engineering Competition Technical Paper Format

General:

Up to 6 pages of text with up to 2 pages of illustrations (after References)

Double column (except title and abstract)

Single spaced, 10-point font minimum

Indent first line of paragraphs, no spacing between paragraphs

Include any tables with text (not with Illustrations)

Space before and after major section headings, major section headings in bold

Statement that ESRA has permission to distribute

Text:

(Centered on first page, single column):

Title

Authors (student team members)

Faculty Advisor (including contact information)

Institution Name

7th Intercollegiate Rocket Engineering Competition, Green River, UT, (dates)

Experimental Sounding Rocket Association, Logan, UT

Abstract: paragraph summarizing the paper (to be used by researchers to determine whether the paper may have information they need without having to read the entire paper).

(Begin double column formatting:)

Introduction/Background: brief history of rocket program, objectives (including those not involving or required by the IREC; e.g. test student-built liquid engine, demonstrate air start, demonstrate guided recovery, etc.).

Rocket Design and Rationale: top-level description of the rocket and payload design, and rationale for major design decisions. Include simulation results or other calculations to predict rocket's ability to meet IREC objectives (deliver payload to target altitude).

Systems Design, Analysis, and Testing: more detailed description of design of rocket systems (e.g. propulsion, airframe, recovery, avionics) including results of analysis and testing that drove design decisions.

Major Tests and Results: description of major tests conducted prior to the IREC (e.g. propulsion,

recovery, and flight tests) and their results. Include discussion of any resulting design changes.

Final Design Summary (Conclusion): summary of final rocket and payload design as brought to the IREC and its expected performance. Include table listing major systems/components and whether they were student-built or procured commercially.

Acknowledgments (optional) People and/or organizations whom you would like to recognize for their help with the project.

References (include dates of accessing online sources)

Illustrations (single or double column as needed for clarity)