

SPACE DYNAMICS LABORATORY

PAYLOAD CHALLENGE

ESRA ID NUMBER

UNIVERSITY

PAYLOAD NAME

TEAM NAME

FACULTY ADVISOR
EMAIL, PHONE #

Objective - Challenge teams to develop payloads that accomplish relevant function(s) while providing useful learning opportunities.

ENTRY FORM (to be filled out by team; also fill out top portion of judging sheet)

In order to enter the SDL payload challenge, this form must be submitted no later than two weeks prior to the start of the event.



Scientific or Technical Objective

(1200 characters max)



Failure & Hazard Analysis

Briefly describe possible failure modes and potential hazards. (1200 characters max)



Components & Materials Used

List the components and materials used ("Component" refers to purchased items, "material" refers to everything else). (1200 characters max)

EMAIL FORM TO : PAYLOADCHALLENGE@SDL.USU.EDU



JUDGING FORM

(team fill out top portion only)

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FACULTY ADVISOR
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Form fields for ESRA ID NUMBER, UNIVERSITY, PAYLOAD NAME, TEAM NAME, and FACULTY ADVISOR EMAIL, PHONE #.

IREC payload compliance: <i>TO BE FILLED OUT BY JUDGES</i>	SCORE
1. Weigh (8.8 lbs or 4.0 kg minimum) ■ <input type="text"/> 2. Removable from the rocket ■ <input type="text"/> <input type="text"/> 3. Not affect the flight of the rocket if removed and replaced with ballast ■ <input type="text"/> <input type="text"/> 4. Totally recoverable ■ <input type="text"/> <input type="text"/> 5. Not contain any live, vertebrate animals ■ <input type="text"/> <input type="text"/> 6. Not contain significant quantities of lead or other hazardous materials ■ <input type="text"/> <input type="text"/> 7. CubeSat form factor (BONUS) ■ <input type="text"/> <input type="text"/>	

Total IREC deduction or bonuses

Payload Challenge Judging Criteria

Scientific or Technical Objective(s) › <i>Scientific or technical relevance, experimental approach, etc.</i> _____ _____ _____ _____	(400 points)
Payload Construction and Overall Professionalism › <i>Includes make/buy decisions, craftsmanship, material usage, poster, handouts, reports, etc.</i> _____ _____ _____ _____	(200 points)
Readiness / Turnkey Operation › <i>Will the payload interfere with launch operations? Will the payload operate after hours of launch preparation, rail time, heat, waiting for other launches, etc?</i> _____ _____ _____ _____	(100 points)
Execution of Objective(s) › <i>How well did it accomplish the objective(s)?</i> _____ _____ _____ _____	(300 points)

Note that rocket failure results in 150 points (half credit – not known if payload would have worked or not)

TOTAL PAYLOAD CHALLENGE SCORE

