

Regional Rocket Competitions

The Students for the Exploration and Development of Space (SEDS-USA) is seeking Tripoli Prefectures who may be willing to host a regional rocket competition. This document will provide a high level overview and what would be needed from the prefecture.

Background Information

Each year, the Spaceport America Cup has to turn away more than 50 university rocketry teams due to unavailable competition slots. These teams have a very limited number of options to safely compete and launch their rocketry projects. Many of these teams also struggle to fund the expense of traveling across the country for a week to attend the Cup.

SEDS has decided to create a new series of regional rocketry competitions that will fill this need and provide potential winners with automatic bids to attend the following year's Spaceport America Cup.

Competition Requirements

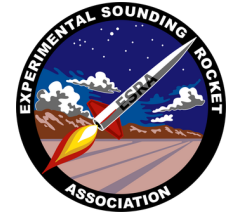
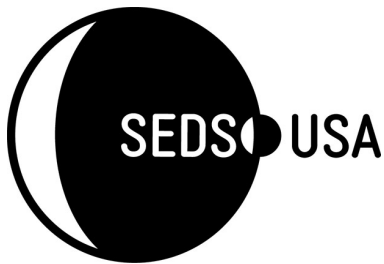
These regional rocketry competitions will be based on the Spaceport America Cup's Commercial Off The Shelf(COTS) Solid Propulsion 10K event with some scaled down requirements. The student teams will be required to build, test, launch and recover a rocket with a 1-kg payload to ten thousand feet on a commercially available L motor or smaller. The Tripoli Safety Code will be followed. One of the students (or a designated and certified mentor) must be the Level 2 authorized flyer of record and all team members who work on the rocket's energetics or travel with the rocket to the pads must be a Tripoli member.

Prefecture Partner Duties

The Tripoli Prefecture hosting the SEDS regional rocketry event will only be required to provide typical Range Safety and Launch Operations for the student teams.

SEDS Partner Duties

SEDS USA volunteers will be onsite to run the competition activities such as coordinating and communicating with the student teams, judging the design reports, gathering post flight data and finally the awards ceremony.



Prefecture Requirements

- 1) Launch sites must have a waiver of at least 12k' and an appropriate recovery field that supports flights to these altitudes.
- 2) Regionals should have a 2-day launch window with the 2nd day as a weather backup.
- 3) Launch windows should be scheduled between April 1st and July 31st of each year.
- 4) Standard Tripoli range operations duty. Provide a Range Safety Officer and Launch Control Officer. As in any launch, RSO will have authority to allow or disallow any flight.
- 5) Provide access to appropriate facilities (restrooms, parking, etc).
- 6) Access, within a reasonable range, to lodging, food and facilities for the teams to utilize over the competition.
- 7) Be willing to help the teams at the field when needed.

Support Prefectures will receive

- 1) SEDS USA will collect funds from the teams and distribute to the Prefectures participating to offset launch expenses. Additional funding may be available for events that exceed 10 registered teams.
- 2) Information on the team rocketry projects will be provided to the Prefects a minimum 4 weeks in advance of the event. Feedback from the Prefect would be greatly appreciated, particularly relating to safety concerns so that there are no surprises on launch day.
- 3) SEDS USA staff will provide all communications needed to the student teams. For example, directions to the site, rules for attending the launch, etc.

What to Expect

- 1) Typical regional events should host on average 5-15 teams with 5-20 members on each team. SEDS USA will provide Prefectures specific numbers well in advance. SEDS USA can restrict participation to avoid overwhelming the launch site.
- 2) SEDS USA should do the majority of communications and coordination with the student teams, before and during the event
- 3) Lots of competitive and excited students wanting to have a great flight.

Questions and Contacts:

Todd Knight	jtknight42@gmail.com	614-571-8633
Andy Berger	rocketberger@gmail.com	281-804-3190

SEDS-USA will provide contact information as we begin securing agreements with Prefectures.