



# Spaceport America Cup

## 2021 Integrated Master Schedule Document

## Table of Contents

### Contents

1.0	INTRODUCTION.....	3
1.1	BACKGROUND.....	3
1.2	PURPOSE AND SCOPE .....	3
1.1	REVISION .....	3
1.2	DOCUMENTATION .....	4
2.0	IREC DELIVERABLES SCHEDULE AND OTHER IMPORTANT PRE-EVENT DATES .....	4
3.0	SPACEPORT AMERICA CUP EVENT SCHEDULE OVERVIEW.....	6

## 1.0 INTRODUCTION

The Experimental Sounding Rocket Association (ESRA) and the New Mexico Spaceport Authority (aka Spaceport America; NMSA) have partnered to host and support the Spaceport America Cup (SAC), a week-long series of events which will set the background and provide structure for the world's largest university rocket engineering competition. This host-event continues the Intercollegiate Rocket Engineering Competition's (IREC) legacy of inspiring student design teams from across the country and around the world.

## 1.1 BACKGROUND

The “smoke and fire,” noise, high speeds, and sleek aerodynamics of rocketry encourage students to pursue science, technology, and mathematics based careers. They have "Rocket Fever!", and competition motivates them to extend themselves beyond the classroom to design and build the rockets themselves. These students also learn to work as a team, solving real world problems under the same pressures they'll experience in their future careers.

ESRA held the first annual IREC in 2006. The competition achieved international status in 2011 when Canadian and Brazilian universities threw their hats in the ring. These schools have since been joined by others from every continent except Antarctica. In fact, the competition has roughly doubled in size every year since 2013, becoming the largest known collegiate level rocket engineering competition in the world in 2014. Attendance in 2016 included as many as 600 participants – including faculty, family, and friends of students from over 50 colleges and universities. The next year marked the start of a new era with the inaugural Spaceport America Cup. Over 1,100 students, faculty, and representatives from 22 industry partners participated in an academic conference, rocket and payload engineering competitions, and non-competing demonstration flight tests.

## 1.2 PURPOSE AND SCOPE

This document primarily defines the schedule on which participants in the Spaceport America Cup: Intercollegiate Rocket Engineering Competition must submit required deliverables to the event organizers in order to be considered "timely" in scoring. The impact of timeliness on scoring is described for each respective deliverable in Section 2.6 of the *IREC Rules & Requirements Document*, maintained on the ESRA website (<http://www.soundingrocket.org/sa-cup-documents--forms.html>). Furthermore, this document, integrates other information useful to participants, such as the deadlines for early, on-time, or late-payment of fees, due dates for required waivers/forms, and the detailed event schedule of the Spaceport America Cup itself.

## 1.1 REVISION

The SAC Integrated Master Schedule Document is a living document and will be updated as needed throughout the year leading up to the Spaceport America Cup – at the event itself if necessary – in response to real-world events. The most up to date version will always be maintained on the ESRA website (<http://www.soundingrocket.org/sa-cup-documents--forms.html>). Participants should always verify they are working to the correct version by checking the Effective Date recorded on the header of their copy matches the version currently stored on the ESRA website. Updates to the SAC Integrated Master Schedule Document will always be announced via e-mail and other means.

*NOTE: The event organizers will never revise the SAC Integrated Master Schedule Document to make the due dates of upcoming deliverables sooner than originally scheduled.*

## 1.2 DOCUMENTATION

The following documents include standards, guidelines, schedules, or required standard forms. The documents listed in this section are either applicable to the extend specified in this document or contain reference information useful in the application of this document.

DOCUMENT	FILE LOCATION
IREC Rules & Requirements Document	<a href="http://www.soundingrocket.org/sa-cup-documents--forms.html">http://www.soundingrocket.org/sa-cup-documents--forms.html</a>
SA Cup Range Standard Operating Procedures	<a href="http://www.soundingrocket.org/sa-cup-documents--forms.html">http://www.soundingrocket.org/sa-cup-documents--forms.html</a>
IREC Forms and Templates	<a href="http://www.soundingrocket.org/sa-cup-documents--forms.html">http://www.soundingrocket.org/sa-cup-documents--forms.html</a>

## 2.0 IREC DELIVERABLES SCHEDULE AND OTHER IMPORTANT PRE-EVENT DATES

The following table records the schedule on which participants in the Spaceport America Cup: Intercollegiate Rocket Engineering Competition must submit required deliverables to the event organizers in order to be considered "timely" in scoring, as well as the due dates for competition fees and required waivers/forms. Unless otherwise specified, all times given are Eastern Daylight Time (EDT).

All deliverables are now managed via the Spaceport America Cup 2021 Hero<sup>X</sup> challenge page at: <https://www.herox.com/SpaceportAmericaCup2021>

DATE	ACTION(S)
0100 02 OCT 2020	Entry Application window begins per Section 2.6.1 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a>
1700 16 OCT 2020	Entry Application window closes per Section 2.6.1 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a>
2000 26 OCT 2020	Acceptance Announcement per Section 2.6.1 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a>
1700 11 DEC 2020	Submit 1 <sup>st</sup> Progress Update per Section 2.6.1 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a>
	\$200 Entry Deposit fee is due using the payment link provided on the IREC Fees webpage of the ESRA website: <a href="http://www.soundingrocket.org/irec-team-fees.html">http://www.soundingrocket.org/irec-team-fees.html</a>
1700 05 MAR 2021	Submit 2 <sup>nd</sup> Progress Update per Section 2.6.1 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a>
1700 14 MAY 2021	Deadline for entering the 2021 Virtual Spaceport America Cup.

	<p>Submit Project Technical Report per Section 2.6.2 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a></p>
	<p>Submit Podium Session Materials per Section 2.6.4 of the <i>IREC Rules &amp; Requirements Document</i> - <i>Slide Deck and Extended Abstract</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a></p>
	<p>Submit School Participation Letter per Section 2.6.5.1 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a></p>
1700 11 JUNE 2021	<p>Submit Poster Session Video link per Section 2.6.3 of the <i>IREC Rules &amp; Requirements Document</i> <a href="https://www.herox.com/SpaceportAmericaCup2021">https://www.herox.com/SpaceportAmericaCup2021</a></p>

### 3.0 SPACEPORT AMERICA CUP EVENT SCHEDULE OVERVIEW

The detailed agenda can be found on the event website at:

<https://www.accelevents.com/e/2021VirtualSpaceportAmericaCup>

DATE	EVENT(S)
18 JUN 2021	<b>Day 1:</b> Welcome, Keynote, Technical Sessions, and Kickoff! Day 1 podium and poster sessions.
19 JUN 2021	<b>Day 2:</b> Keynote #2, Technical Sessions, Day 2 podium and poster sessions.
20 JUN 2021	<b>Day 3:</b> Keynote #3, Technical Sessions, Day 2 podium and poster sessions.
	<b>Awards Ceremony:</b> For participants, family, friends, faculty, and media, the awards ceremony will take at the end of the final day.