

National Aeronautics and
Space Administration



2015 NASA SL

Student Launch

Rocket Fair

Thursday, April 9

11 a.m.–1 p.m.

MSFC Activities Building 4316

Free Pizza!



Launch Day

Friday–Saturday, April 10–11

10 a.m.–till (Fri.), 8 a.m.–till (Sat.)

Bragg Farms, Toney, Alabama

Rain Date

Sunday, April 12

8 a.m.–till

Bragg Farms, Toney, Alabama

Sponsored by Orbital ATK
in collaboration with
NASA's Centennial Challenge





Rocket Fair

MSFC Activities Building (4316)
Fair Day: April 9
11 a.m.–1 p.m.
Free Pizza!

NASA Student Launch (SL)

Bragg Farms
Launch Days: April 10–11
Opening Ceremonies begin at
10:00 a.m. Fri. and 8:00 a.m. Sat.

Rain Date

Bragg Farms
Launch Day: April 12
Opening Ceremonies begin at 10:00 a.m.

Launch is free and open to the public.

What is NASA Student Launch?

The NASA Student Launch (SL) challenges middle school, high school, and college students in designing, building, and launching a reusable rocket to a pre-determined altitude above ground level with one of three scientific or engineering payloads. SL is an 8-month commitment requiring teams to submit a series of reports and reviews, develop a Web site, provide educational engagement in their local community and provide a timeline, a budget, and other requirements. The 3 payload options are detailed below.

1. Middle/High School: Design a scientific or engineering payload, and launch it to an altitude of 1 mile above ground level (AGL).
2. Mini Mars Ascent Vehicle (MAV): Design autonomous ground support equipment (AGSE) to capture a provided payload, contain it within a rocket, launch it to 3000 feet AGL, and eject it at 1000 feet AGL.
3. Maxi MAV: Design AGSE to capture a provided payload, contain it within the rocket, elevate the rocket to an angle of 5 degree off vertical, insert the motor igniter, launch the rocket to 3000 feet AGL. This option is a NASA Centennial Challenge (CC) competition. To learn more about Centennial Challenge, please visit their website below.

Is this project a contest?

College and University: Yes. Each team is competing for various prizes including a grand prize of \$5,000 sponsored by Orbital ATK. Additionally, NASA Centennial Challenge will be providing prize money totaling up to \$50,000 to the top 3 teams who successfully completes the Maxi MAV competition. The CC award winners will be announced at the awards banquet, and SL award winners will be announced after the final reports are completed.

Middle and High School: No. However, teams competed and placed in the top at the Team America Rocketry Challenge (TARC) or the Rockets for Schools Competition. As a result, teams were eligible to propose to be a part of this year's SL.

Information can be obtained from the following:

- Student Launch: <http://education.msfc.nasa.gov/sl>
- Julie Cliff at julie.d.cliff@nasa.gov
- Ian Bryant (Jacobs ESSSA) at ian.i.bryant@nasa.gov
- Katie Wallace at katie.v.wallace@nasa.gov

Launch day information line: 256-961-1334

Directions to Bragg Farms

1180 Grimwood Road, Toney, Alabama 35773

From MSFC:

1. North on Research Park Blvd. (Hwy 255) to Pulaski Pike.
2. Turn North (left) onto Pulaski Pike.
3. Go 3.6 miles until Pulaski Pike veers to the left.
Instead of following Pulaski Pike, go straight onto Patterson Lane.
There will immediately be a sharp right turn.
4. After 0.7 miles, turn left on Murphy Hill Road, which is the first road to the left.
5. Take Murphy Hill Road 1.8 miles to Grimwood Road.
6. Turn East (right) onto Grimwood.
7. Take Grimwood 0.9 miles to Bragg Farms.
The farm will be on the South side of Grimwood Road.

From Downtown Huntsville:

1. Take Hwy 231/431 North to Grimwood Road. Grimwood road is 5 miles North of Bob Wallace Lane and 0.7 miles North of Meridianville Middle School.
2. Turn West (left) onto Grimwood Road.
3. Go 2.5 miles to Bragg Farms.
The farm will be on the South side of Grimwood Road.

What to bring:

- Chairs
- Small cooler for lunches and snacks
- A food vendor will be provided at the launch field and accepting cash only
- Sturdy shoes/boots. Depending on weather, the field can be hard and dry, or very muddy
- Insect repellent
- Appropriate weather related items: sunscreen, sunglasses, hat, jacket, raincoat, etc.
- Do NOT bring grills or generators. These will not be permitted on the launch field.

Safety Statement

Please be advised that hazards are inherent in launching and in viewing launches. By accepting the invitation to view the launch, you indicate your understanding of the potential risk.

Although NASA applies stringent range safety principles and techniques to protect the general public, workforce, and property during launch, in the event of an inadvertent circumstance, hazards including debris, blast, and toxins may occur.

It is imperative that you stay within controlled areas, stay with your group, and strictly follow all instructions provided by NASA.

NASA Student Launch is sponsored by Orbital ATK with the annual launch event hosted at Bragg Farms in Toney, Alabama. Launch services are provided by the National Association of Rocketry.

2014–2015 NASA Student Launch Teams (Middle/High School)

Durham Area Rocketry—Durham, North Carolina
Krueger Middle School—San Antonio, Texas
Madison West High School Land Imaging—Madison, Wisconsin
Madison West High School Muons—Madison, Wisconsin
Plantation High School—Plantation, Florida
Spring Grove High School—Spring Grove, Pennsylvania
St. Vincent-St. Mary High School—Akron, Ohio
Victory Christian Center School—Charlotte, North Carolina

2014–2015 NASA Student Launch Teams (University/College Mini MAV)

Alabama A&M University—Huntsville, Alabama
Citrus College—Glendora, California
Saint Louis University—St. Louis, Missouri
University of Alaska Anchorage—Anchorage, Alaska
University of Arkansas—Fayetteville, Arkansas
University of Central Florida—Orlando, Florida
University of Massachusetts—Amherst, Massachusetts
Vanderbilt University—Nashville, Tennessee

2014–2015 NASA Student Launch Teams (University/College Maxi MAV)

Auburn University—Auburn, Alabama
California State Polytechnic University—Pomona, California
Clark College—Vancouver, Washington
Cornell University—Ithaca, New York
Florida International University—Miami, Florida
Georgia Institute of Technology—Atlanta, Georgia
Iowa State University—Ames, Iowa
North Carolina State University—Raleigh, North Carolina
Northeastern University—Boston, Massachusetts
Northwest Indian College—Bellingham, Washington
Northwestern University—Evanston, Illinois
Tarleton State University—Stephenville, Texas
United States Naval Academy—Annapolis, Maryland
University of Florida—Gainesville, Florida
University of Illinois at Urbana-Champaign—Champaign, Illinois
University of Louisville—Louisville, Kentucky
University of North Carolina Charlotte—Charlotte, North Carolina
University of North Dakota—Grand Forks, North Dakota
University of Notre Dame—Notre Dame, Indiana
University of Puerto Rico at Mayagüez—Mayagüez, Puerto Rico

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Marshall Space Flight Center

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www.nasa.gov/centers/marshall