

DREAM **BIG** EADS

April 27th, 2017
9:00 am – 2:45 pm

Planning Document

Cybersecurity

*Unmanned Air
Systems and Robotics*

Space



Aviation

*Advanced
Manufacturing*

Eads High School
Home of the Eagles!



Dream Big Eads Objective:

Inspire students for STEM and to dream big about the infinite opportunities they have for careers to improve our world.

Concept of Operations:

Approximately 250 students from multiple high schools (grades 7 – 12) from the Eads / Kiowa County area will convene at Eads High School. The students will initially meet in the gymnasium and will be pre-assigned to 1 of 5 groups, approximately 50 students per group. The groups will rotate through 5 inspiring technology learning themes throughout the day and experience applied learning led by the Dream Big Team. Each group will have 40 minutes for each learning theme. Additionally there will be space emissions, flight orientation, and a Smarter World Tour vehicle to visit at the event. There will be displays for student viewing that focus on career opportunity

Because classroom size is limited to 25 – 30 students, each group of 50 students will be sub-divided into an A group and a B group, approximately 25 students each. Each learning area will have 2 classrooms (25 students each) to present at the same time, thus multiple facilitators for each learning area will be required. The exception is for the unmanned air systems and robotics that will have all 50 students in the gymnasium, for each session.

Although there is a set schedule of learning activity throughout the day, students have flexibility to repeat learning areas, spend time with specific Dream Big team members, etc... Facilitators (faculty members) with each group of students will approve this individually for students.

Event Location:

Location: Eads High School, 210 W 10th St, Eads, CO 81036
Event date: April 27th, start 9 am, complete 2:45 pm

Leadership:

Planning Chair: Jay Lindell, OEDIT Aerospace and Defense Industry Champion (jay.lindell@state.co.us)
Eads School District Superintendent: Glenn Smith
Eads High School Principal: Betsy Barnett
Kiowa County EDC: Jan Richards, Kiowa County Economic Development Foundation
Sedgwick County EDC Advisor: Michael S Sullivan, Executive Director, Sedgwick County Economic Development

Major Learning Areas:

1. Space, Blast Off To Mars
2. Unmanned Air Systems (UAS) and Robotics; Our New Future
3. Cybersecurity; The New Threat
4. Aviation; You Can Fly!
5. Advanced Manufacturing; Forging Ahead in Colorado!

Dream Big Team Leads

1. Space: Alires Almon, Colorado Space Business Roundtable
2. Unmanned Air Systems, Robotics: Constantin Diehl, President/CEO UAS Colorado
3. Cybersecurity: Scott Nelson, SecureSet Academy,

4. Aviation: Jay Lindell, Colorado OEDIT; John Pepperdine; Metro State University of Denver
5. Advanced Manufacturing: Debra Wilcox, The 3D Printing Store; Heidi Hostetter, Fauston Tool

Schedule:

- 8:30 Dream Big Team arrival at Eads High School
- 8:45 Dream Big Team huddle Up in gymnasium
- 9:00 – 9: 15 Large group kick-off session, gymnasium, get pumped
- 9:25 – 10:05 Session 1
- 10:15 – 10:55 Session 2
- 11:05 – 11:45 Session 3
- 11:45 – 12:40 Lunch
- 12:45 – 1:25 Session 4
- 1:35 – 2:15: Session 5
- 2:25 – 2:40 Large group closing session with entire group in gymnasium
- 2:45: Complete, load busses
- 3:00 – 3:15: Dream Big Team review, final words for home return

Student Facilitators:

Eads High School will assign facilitators (faculty members) to each group of students to ensure the students stay on time and find the room location for their next learning session. Facilitators will also take care of any student issues, etc... If students would like to repeat a learning session or spend more time in one learning area, facilitators will need to approve.

Site Survey: Betsy Barnett

719-438-2214, betsy.barnett@eadseagles.org

If anyone would like to do a site survey or facility tour prior to the event, coordinate with Betsy Barnett, Eads High School Principal.

Lunch Plan:

Lunch will be served at Eads High School for all participants. Lunch is planned 11:45 – 12:40. During the lunch time, students will utilize time to meet with Dream Big Team members and have time to view displays as well as pick up business and educational promotional items that will be available.

Flight Orientation: John Barry, Hetty Carlson,

Flight Program Manager: Hetty Carlson, 303-650-5360 ext 130, hcarlson@wingsmuseum.org

Pilot: John Barry, 303.360.5360 ext 124, jbarry@wingsmuseum.org

John Barry, President and CEO, Wings Over The Rockies Air & Space Museum has agreed to fly 7 flights of 3 students each in Cessna 182, a Wings aircraft. Flights will be flown at the local airport under the Wings Teacher Flight Orientation Program with each flight approximately 20 minutes. Students selected for the flight orientation ride will cycle in and out of their groups during the course of the day. Eads School District will select the students for the flight orientation, coordinate transportation to and from the airport for the students, and coordinate necessary liability and parental release with Wings Over The Rockies.

Challenger Learning Center: Dr Rob Fredell

719-598-9755, rfredell@clccs.org

Dr Rob Fredell, President and CEO for the Challenger Learning Center in Colorado Springs, will conduct 2 e-mission simulations with approximately 20 – 25 selected students for each mission. Each mission is a problem solving and engaging 2 hour session with homework required for students prior to the event. The students selected for the e-missions will cycle from their designated group during the course of the day. There is a specially designated technical classroom for the e-missions. If Dr Fredell plans to simulate a Mars mission, you can probably find Jay Lindell with the students on the way to Mars.

Smarter World Tour Coordinator: Helene Hughes

303-668-4180, helenerhughes@gmail.com

NXP's Smarter World Tour program will be at Dream BIG Eads! On a world tour, the tour vehicle brings the internet of things to life, with more than 180 demos that let you interact with advanced driver assistance systems, RF cooking devices, smart home automation, wearables, and more. The 90 foot long truck will be parked on the street in front of the school and students will be scheduled to visit the tour vehicle throughout the day. Volunteers will help with the demonstrations and answer questions for the students and others that tour the vehicle. More information can be found at:

<http://iot.nxp.com/americas>. When Dream BIG Eads is complete, then parents, teachers, and all others will be welcomed to tour the vehicle.

Media, Social Media & Communications: Jenifer Doane

303-892-3848, jenifer.doane@state.co.us

Jenifer is the Communications Manager, Colorado Office of Economic Development and International Trade. Jenifer will coordinate with school officials concerning media release, photos, and a social media blog site for students to send information and for Eads to tell the world that we are Dreaming BIG! Please inform Jenifer for all other organizational media releases so that all releases are on the same message and updated information on the event.

Display and Donor Coordinator: Pamela Burke

303-681-2541, pamelaburke@netzero.net; pamelaburke@lmco.com (use both)

Pamela Burke is coordinating with all organizations that would like to display their business, educational, technical, or any capability that help inspire students to dream big about careers and opportunities. All organizations are welcome to provide displays at the school with a career opportunity focus. All business trade show type promotional items for students to take home are welcomed.

Eads High School Technical Support: Troy Smith

719-336-9046 ext 2, troy.smith@seboces.org

Eads High School technical support point of contact is Troy Smith. Please contact Troy Smith for questions on technology capability to support learning activities. Troy will also be fully available during the event.

Budget Manager: Jan Richards

719-438-2200, kcedf@kcedfonline.org

Jan Richards, Kiowa County Economic Development Foundation is managing all foundation and other budget support for the event. Due to her work, this is a free lunch event.

Transportation:

Transportation is self provided for the event. Eads is 170 miles from downtown Denver and is 2 hour and 45 minute drive in light traffic (will be light traffic after leaving Denver area). Plan your drive accordingly. Car pooling is encouraged. Staying overnight at Eads on Wednesday 26 April, might be a better option than an early AM drive.

Eads Airport Information: Van Brown

719-688-7294, vanbrown@hotmail.com

Van Brown is the Director of Public Works, Town of Eads. For information on Eads Airport and facilities, please contact Van Brown

Lodging for Overnight in Eads: Cobblestone Inn & Suites

The Cobblestone Inn & Suites, 501 E. Lowell Ave Eads, Colorado is a great hotel for an overnight stay if needed. Reservations can be made by phone at 719-438-2021 or online at:

<http://www.staycobblestone.com/co/eads/>

Dream Big Planning Telecon Coordination: Jay Lindell

720-237-7661, jay.lindell@state.co.us

The following telecons are planned with the entire Dream Big Team to review planning efforts to date and milestone progress. The telecon will be hosted by Jay Lindell. Dial-in 877-820-7831, passcode: 833700#.

Fri Mar 31st: 9 - 10 am

Fri Apr 21st: 9 - 10 am

Misc Notes:

- The Unmanned Air Systems / Robotics learning area plans to conduct demonstrations inside the gymnasium and will have a safety zone identified for indoor flying. However, weather permitting, the unmanned systems can be flown immediately outside the gymnasium on an adjacent athletic field if weather permits. The safety zone for flying must be clearly identified and monitored when flying is in progress.
- Lt Gov Donna Lynne plans to attend a portion of the event depending on other local area events planned during the day.
- The Colorado National Guard plans to fly a helicopter to Eads High School for a static display. The Colorado National Guard will also want to talk to students about National Guard opportunities with a table area in the school to meet students. For flight operations, a planned landing zone will need to be designated and safety monitors in place during helicopter operations.

Major Milestones:

Flight Orientation Program: Wings Over The Rockies, Eads High School

- Student selection, flight liability, parental release complete: April 14
- Airport coordination, parking, fuel, etc.: April 14
- Student transportation plan: April 14

Dream Big Team Leads

- Applied learning and demonstration plans finalized: March 31
- All special equipment or accessory needs coordinated with Eads High School: March 31

Eads High School: Betsy Barnett, Principal

- Classroom plan identified and coordinated with each Team Lead: April 14
- Students group and schedule plan finalized: April 14
- Students identified for flight orientation: April 21
- Students identified for Challenger Learning Center e-missions: April 14
- Student group faculty facilitators identified: April 21
- Helicopter landing zone identified and coordinated with Colo National Guard: April 14
- Safety drone zone inside and outside coordinated with UAS Team: April 14

More Information or Questions: Jay Lindell

Jay Lindell

Aerospace and Defense Industry Champion

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