

The official e-communication
for Colorado MESA

eNews



Welcome to the March 2009 - Volume 3, Edition 4 of the Colorado MESA e-News electronic newsletter. Please let us know how we can assist your MESA program and make a positive difference for our MESA students. For more information on any item mentioned in

the newsletter, please contact our office at 303.352.3869 or via email at ColoradoMESA@ucdenver.edu. In this edition, you'll find information on 2009 Outstanding MESA Student and Program nominations and our spring MESA Day events and much more. To view past newsletters or print a pdf version of the current issue, visit www.cmesa.org/news/e-news.html

Colorado MESA to Host MESA USA National Engineering Design Challenge in June

Save the date: June 25-28, 2009

Colorado MESA is pleased to host the [2009 MESA USA National Engineering Design Challenge](#) on June 25 – 28, 2009. This 4 day event will bring top middle and high school MESA students from Oregon, California, Arizona, New Mexico, Utah, Maryland and Colorado to test their engineering skills as they compete for trophies, medallions and bragging rights. During the year, student teams are required to design and build a medieval counterweight [Trebuchet](#) and compete in local and regional contests in order to earn the right to represent their state in the MESA USA National Competition in June.

The Trebuchet performance event, to be held in the Auraria Campus gym on June 27, will challenge each student team to compete in the following performance related activities:

- . *Distance*: farthest distance thrown of a single projectile
- . *Accuracy*: nearest distance of projectile impacts to two ground level targets
- . *Strength*: greatest mass of multiple projectiles delivered to a vertical target
- . *Design Efficiency*: greatest ratio of device performance score to device mass.

In addition to testing the performance of their designs, teams will:

1. Submit a 5-15 page technical paper that details the design, development, experimentation and understanding of their device.
2. Present the findings of the above-described research in display format. The display might include items such as data, photographs, drawings, and necessary written explanations.
3. Make an oral presentation based on investigation, experimentation, design, testing, and experiences related to their device. This presentation will be delivered to a panel of judges.

For additional information and to find out how your organization can help sponsor the Colorado MESA program or volunteer at the MESA USA National Competition, call or email Gloria Nelson (gloria.nelson@ucdenver.edu) 303-556-8568.

Frederick High MESA Wins FIRST Robotic Tech Challenge and goes Global!



On Saturday, February 14, 2009 Frederick High School's Mathematics, Engineering and Science Achievement (MESA) after-school program accomplished an amazing feat! They won the Western Regional *FIRST* Tech Challenge. As a result, seven Frederick High MESA students and their advisor, Julie Constantine, will be on their way to compete in the *FIRST* Tech Challenge at the US *FIRST* World Championship! The Frederick High MESA team will compete against teams from eight other countries including Canada, Mexico, Chili, Brazil, India, Norway, Holland, and Singapore at the Georgia Dome in Atlanta, April 16-18, 2009.

"We were lucky to be introduced to this challenge while our MESA team was presenting at Stemapalooza last October," explained advisor Julie Constantine. Kathy and Matthew Collier, Regional US *FIRST* representatives, grabbed the MESA students' attention by demonstrating a model FTC robot. No one suspected that the "lucky" meeting would end with Frederick High MESA being the first and only Colorado MESA team to enter and win a *FIRST* Tech Challenge.

2009 MESA Scholarship Apply NOW!

Number of Scholarships Available - 11
Application Deadline - Friday, April 17, 2009
Scholarship Amount - \$1000 per scholarship
Application - [Click here to download >>](#)

Graduation is quickly approaching and the search for scholarships for next year is in full force. As graduating MESA seniors, you are eligible for scholarships offered by Colorado MESA. MESA Scholarship. Colorado MESA is honored to announce that the 2009 MESA Scholarship application is now available. Two of the scholarships have been endowed with donations inspired by the memory of Mr. Robert Rodriguez and Mr. Charlie Farel, two extraordinary people who were long time supporters of Colorado MESA and diversity education. The remaining scholarship are funded by the American Council of Engineering Companies (ACEC), National Renewable Energy Laboratory (NREL), Micro Motion and Lockheed Martin, all longtime financial supporters of Colorado MESA.

In order to be eligible for the scholarships, students must demonstrate financial need (1/2 the points are based on financial need), be a current MESA participant and submit a completed application by April 17, 2009.

Eligibility

- Current MESA Student (high school senior)
- Accepted into an accredit university/college
- Planning to major in a STEM (science, technology, engineering, mathematics) discipline.

Check List



- Completed Scholarship Application
- Official Student Transcripts (through the current academic semester)
- Personal Statement (1-2 pages)
- Copy of your Federal Student Aid Report (SAR) showing family income
- Letter of Acceptance into College/University
- If awarded scholarship, recipient agrees to participate in the MESA Awards Banquet.

Please note that by submitting a completed application by the deadline, you are eligible for all the scholarships. All applications must be post marked no later than Friday, April 17, 2009. Please email applications to:

Colorado MESA Scholarship

University of Colorado Denver
College of Engineering and Applied Sciences
Campus Box 104
PO Box 173364
Denver, CO 80217

2009 Outstanding MESA Student Award

Application Deadline - Friday, April 10, 2009

Application - [Click here to download >>](#)

The 2009 Outstanding MESA Student Award recognizes 15 outstanding MESA students from around the state. Out of more than 3,500 students, the 15 outstanding MESA students have shown exemplary leadership, creativity and commitment to MESA's mission. As an outstanding student award recipient, students receive a reconditioned Pentium based PC computer and recognition at your schools annual year end award ceremony.

Eligibility

- Current MESA student
- Exemplary MESA student participant during the 2008-09 academic year

Selection

Selection criteria used by our panel to select the finalist will include: GPA, MESA participation, academic and other honors. It is beneficial to include any additional awards, honors, volunteer activities, work experience and/or other community involvement you would like the selection panel to consider.

Instructions

- Carefully read the application prior to completing.
- Applications must be postmarked by Friday, April 10, 2009.
- Applications must be typed, or legibly handwritten in blue or black ink.
- Incomplete or late applications will not be accepted. Please be sure to submit all attachments listed in the checklist by Friday, April 10, 2009.
- Complete applications can be mailed to:

Colorado MESA
2009 Outstanding MESA Student
University of Colorado Denver
PO Box 173364, Campus Box 104
Denver, CO 80217



Colorado Springs District 11 District MESA Competition

Congratulations to all District 11 MESA Teams that participated in the annual district MESA competition. This year, students designed, built and tested wind turbines and balsa wood bridges on February 5, 2009. Dave Sawtelle, MESA District Coordinator congratulates all District 11 MESA teams, advisors and judges from El Paso Corporation for their great work on wind turbines and bridges.

MESA HS/MS Design Challenges

High School Engineering and Science Jamboree

Thursday, April 9, 2009

Colorado School of Mines

8:00AM - 3:30PM

Registration Deadline - Thursday, March 19, 2009

Design Challenges - [Click Here >>](#)

The High School Engineering Jamboree is hands on engineering competition. Students compete in a series of mathematics, engineering and science related projects including constructing a multi-task trebuchet and website design. The 2009 Jamboree is scheduled for Thursday, April 9, 2009 at Colorado School of Mines. The overall objective of the High School Jamboree is to:

- Encourage teamwork.
- Encourage parent and teacher involvement in student activities.
- Develop interpersonal and group skills.
- Encourage honesty and fair play in life situations through competition.
- Develop responsibility and integrity.

Middle School MESA Day

Friday, April 17, 2009

University of Colorado Denver, PE Event Center

8:00AM - 2:00PM

Registration Deadline - Friday, March 27, 2009

Registration Form - [Click Here >>](#)

Design Challenges - [Click Here >>](#)

The Middle School MESA Day is hands on engineering competition. Students compete in a series of mathematics, engineering and science related projects including constructing a multi-task trebuchet and website design. The 2009 MESA Day is scheduled for Friday, April 17, 2009 at the University of Colorado Denver, Downtown Denver Campus. The overall objective of the MESA Day is to:

- Encourage teamwork.
- Encourage parent and teacher involvement in student activities.
- Develop interpersonal and group skills.
- Encourage honesty and fair play in life situations through competition.

- Develop responsibility and integrity.
Competition Information

MESA Advisor Spotlight Advisor Therese Moran, West Middle School

Colorado MESA would like to congratulate MESA Advisor Therese Moran from West Middle School in Grand Junction for receiving the district Wanda Award for outstanding service and dedication. She was nominated by her peers for her great work with the MESA program. Congratulations Therese Moran!



Colorado FIRST Robotics 2009

Join Colorado MESA in wishing luck to all our MESA programs participating in the 2009 FIRST Robotics Colorado Regional Competition scheduled for March 26-28, 2009 at the University of Denver. Below is a tentative schedule of events. For more information visit Colorado FIRST at <http://www.coloradofirst.org/coloradoregional.htm>



Friday, March 27th

9:00 am	Opening Ceremonies
9:30 - 4:30 pm	Seeding Matches
12:00 - 1:00 pm	Lunch
4:45 pm	Awards Ceremony

Saturday, March 28th

9:00 am	Opening Ceremonies
9:30 - 11:40 am	Seeding Matches
11:45 - noon	Alliance Selections
noon - 1:00 pm	Lunch
1:00 - 4:15 pm	Final Rounds
4:30 pm	Awards Ceremony

UPCOMING EVENTS

📅 [HS Engineering & Science Jamboree](#)
April 9, 2009
Colorado School of Mines
8:00AM to 2:00PM

📅 [Middle School MESA Day](#)
April 17, 2009
University of Colorado Denver
8:00AM to 2:00PM



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