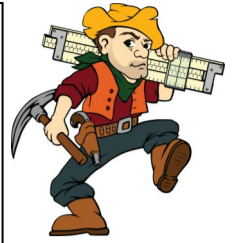




MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Formerly University of Missouri-Rolla



December 8, 2015

Mid-Continent Student Conference Participants,

Missouri S&T is looking forward to hosting the 2016 Mid-Continent Student Conference in April! We are very busy working to make this the best conference yet!

This is the second of three mailers that you will be receiving concerning the 2016 competition. This document contains valuable information that may not be repeated in future mailers. **Please do not delete this mailer.** The following information is enclosed:

- Mailer II Receipt Confirmation
- Deadline Information
- Updated Schedule
- School and Student Registration
- Competition Rules and Regulations
- Technical Paper Rules and Regulations
- Contact Lists

Please confirm you have received this mailer by mailing, faxing, or emailing the enclosed receipt by December 25, 2015. The dates of the conference are April 21-23, 2016. If there are any questions, concerns, or comments regarding the MCSC 2016 or any enclosed information, please do not hesitate to contact us. We will do our very best to help with any questions and/or concerns. You may also find additional information on the conference website:

<http://mcsc2016.mst.edu/>

We look forward to seeing you in April!

Thanks,

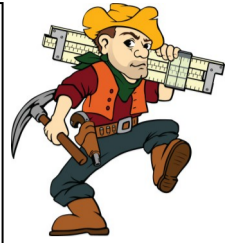
Erin Bolling
Concrete Canoe Student Conference Representative

Joel Cates
Steel Bridge Student Conference Representative



MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

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Receipt Confirmation

Please choose one of the following methods to confirm:

Email:

Erin Bolling or Joel Cates
asce.mcsc@gmail.com

Fax:

Subject: S&T ASCE MCSC
573-341-4437

Mail:

Missouri University of Science and Technology
ASCE MCSC
116 Kummer Student Design Center
1051 N. Bishop Ave
Rolla, MO 65401

Please print or type the information below.

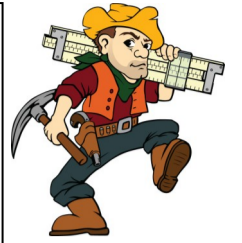
School Name: _____

Faculty Advisor: _____

Faculty Contact Information: _____

Student Chapter Contact (Name, Email, Phone): _____

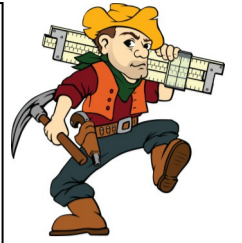
This confirms our school has received Mailer II for the 2016 Conference Competition.



Date	Event
October 30, 2015	Mailer I Confirmation Due Judge Information
December 25, 2015	Mailer II Confirmation Due
February 19, 2016	School/Student Registration Form Due School/Student Registration Fee Due (postmarked)
April 1, 2016 *tentative	Technical Competition Paper Due Concrete Canoe Design Report Due
April 1, 2016 *tentative	Engineering Notebook Due
April 21-23, 2016	Conference Competition

Mailer Informational Dates

October 15, 2015	Mailer I
December 8, 2015	Mailer II
March 11, 2016 *tentative	Mailer III
April 15, 2015 *tentative	Final Information



Thursday

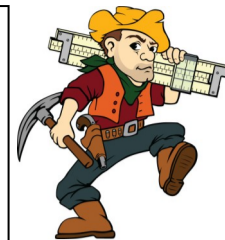
8 AM	Bridge Set Up	Gale Bullman Multi Purpose Building
8:30 AM	Captains Meeting	Gale Bullman G26
9 AM	Aesthetics Judging	Multi Purpose Building
10 AM	Construction Begins	Multi Purpose Building
12 PM	Lunch	Varsity Concession Stand
2 PM	Technical Paper Presentation	Bertlesmeyer G12

Friday

8 AM	Canoe Set Up	Havener Center Lawn
8:30 AM	Captains Meeting	Havener Center
9 AM	Aesthetics Judging	Havener Center Lawn
12 PM	Lunch	Havener Center
1 PM	Dunk Tank	Havener Center Lawn
1 PM	Concrete Bowling	TBD
1 PM	GeoWall	TBD
2 PM	Design Paper Presentation	Toomey 140
6 PM	Social	Lions Club Park Pavilion #1, #2

Saturday

8 AM	Trailer Unload	TBD
8:30 AM	Captains Meeting	TBD
9 AM	Races Begin	TBD
12 AM	Lunch	TBD
6 PM	Banquet	Columbia College—Rolla Campus



School and Student Registration

School Registration

The School Registration Fee is **\$50** per school. This is a one-time fee and is for the school/chapter to pay regardless of the number of teams competing in the conference. A school registration spreadsheet will be available online December 7, 2015. This will be accessible on our website (<http://mcsc2016.mst.edu/blog-and-mailers>) and will show which event(s) each school has registered to participate in. Please verify your schools registration to make sure we have the correct information. If something needs to be changed, please notify us via email (asce.mcsc@gmail.com). If you cannot view the school registration on the website, please let us know and we will email your school's registration thus far.

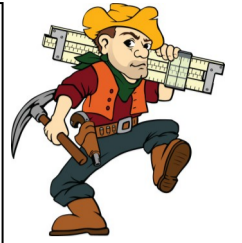
Student Registration

Student registration will also be found online. An Excel document has been made for you to download and fill out. This document was attached in an email with this mailer and can also be found on the conference website. Please mail, fax, or email the completed document. The student registration fee will be **\$35** per student. If a student is attending the competition but not competing, they will still need to register to be able to get a name tag, t-shirt, and food and you will need to check the Attendee box. If your Faculty Advisor is attending and would like to receive the food, t-shirt, and events available, please register them on the student registration form and check the Attendee box. For anyone with any dietary needs or special accommodations, there will be a place located on the student registration document for you to let us know. If a student would like to register and attend after the February 19th deadline, a \$5 late registration fee will be assessed. This student will have to be registered by contacting us and sending in their registration fee of **\$40**. If a student registers late, we cannot guarantee a proper t-shirt size or formal name-tag.

Payment

The school and student registration form can be emailed, faxed, or mailed to the addresses on the proceeding pages. To make things easy, both the school registration fee and student registration fee will be due at the same time. Both payments will be due by February 19, 2016 (postmarked) and will need to be mailed to the address below. Any day after the due date will be considered a late fee and you will be asked to pay the appropriate late fees as written above. Your school registration fee will appear on the student registration document. At the bottom of this attached document, a total value will be given for the sum of the school and student registration fees. This value will be what you owe. If you believe it is incorrect please notify us via email. This amount will need to be paid in full by check. The check needs to be made out to **“Curators of Missouri S&T”** with **“Your School, Your Design Team”** in the memo and mailed to:

**Missouri University of Science and Technology
ASCE MCSC
116 Kummer Student Design Center
1051 N. Bishop Ave
Rolla, MO 65401**



Concrete Canoe Rules

The Mid-Continent Concrete Canoe Competition will be following the 2016 ASCE National Concrete Canoe Competition Rules. The website for the 2016 ASCE NCCC Rules and Regulations are located at:

www.asce.org/concretecanoe/rules-regulations/

Please remember the **Concrete Canoe Design Reports are due by April 1, 2016**. Late submissions will be deducted points as seen in the rules.

Send an electronic copy to Erin Bolling at asce.mcsc@gmail.com. Include your school name and Concrete Canoe Design Reports in the subject line.

Steel Bridge Rules

The Mid-Continent Steel Bridge Competition will be following the 2016 AISC National Competition Rules. The website for the AISC National Student Steel Bridge Competition Rules are located at:

<http://www.aisc.org/WorkArea/showcontent.aspx?id=21576>

Please remember the **Technical Paper is due by April 1, 2016**. A single person from your ASCE chapter is required to write this paper and give a presentation at competition in order for your team to compete at Nationals for any competition. Late submissions will be deducted points as seen in the rules

Send an electronic copy to Joel Cates at asce.mcsc@gmail.com. Include your school name and Technical Paper in the subject line.

Concrete Bowling Rules

Objectives

Design and construct a concrete bowling ball that is practical, durable, and aesthetically pleasing.

Participants

- Each school may only enter one team.
- Each team must have at least two members, but no more than five.
- Each team member must be a registered participant of the Mid-Continent Student Conference

The event will consist of two parts: the bowling ball design and a bowling competition. Each team will bowl in five combined frames (a maximum of eleven bowls in the case of striking or sparing in the fifth frame). The bowling ball must be able to perform in all frames of the competition; if the ball cannot perform then the team will be disqualified from the bowling competition.

General Rules

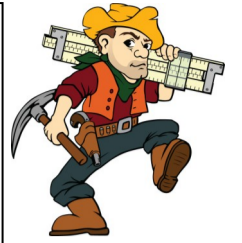
Bowling Ball Design (60 points total)

1. Dimensions and Construction (failure to comply results in automatic DQ)

- a. The ball's circumference must be between 26.5" and 30.0".
- b. The ball must be spherical (Judges discretion).
- c. The ball shall weigh no more than 16 pounds.

2. Mix Design (30 points)

- a. The mix design is at the discretion of the school
- b. A **concrete mix table must be submitted by April 1, 2016** to asce.mcsc@gmail.com. Please include your school name and Concrete Bowling in the subject line.
- c. Each team will be judged on creativity.
- d. No resins or epoxies may be used.
- e. The ball must be solid concrete.



f. Reinforcement may be used; however, none shall be exposed prior to competition. Exposure due to breakage is allowable.

3. Durability (30 points)

- Bowling balls will be weighed before and after the bowling competition. For every 1% of total weight lost from each ball, ½ point will be deducted. If a ball loses more than 20% of its total weight, the team will be disqualified from the event.
- The ball must be able to perform in all frames of game play. A damaged ball may be used after the first roll, but it must roll to the pins (no throwing).

4. Aesthetics (15 points)

- Each team should establish a theme to be portrayed through the aesthetics of the ball.
- This will be judged at the beginning of the competition; the specifics of this scoring will be left to the discretion of each individual judge.
- Any theme of aesthetics found to be offensive will result in automatic disqualification.

Bowling Competition (40 points)

- Standard bowling rules will apply. Progress of Play and Scoring can be found at:

<http://www.pba.com/Resources/Bowling101/>

- Each team will have a combined 5 frames, for a maximum of eleven bowls (in case of a spare or strike in the fifth frame).
 - When a person starts a frame, they must finish that frame.
 - Each team member must bowl at least one frame.
- Standard bowling pins will be used, and the alley will be grass. The lane will be 40' long from the foul line to the head pin. The approach will be 15' long and end at the foul line.

GeoWall Rules

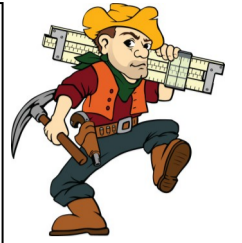
The Mid-Continent Geowall Competition will be following the 2016 ASCE National Geowall Competition Rules. The website for the 2016 ASCE Geowall Competition Rules and Regulations are located at:

<http://geo-structures.org/program/documents/2016-GI-SEI-Wall-Rules-1.2.pdf>

The **design report for the Geowall Competition will be due by April 1, 2016**. Late submissions will be deducted points as seen in the rules.

Send an electronic copy to Erin Bolling and Joel Cates at asce.mcsc@gmail.com. Include your school name and Geowall Paper in the subject line.

Please note that the dates on this document correspond with the National Competition, not the Regional.



Technical Paper and Presentation Competition

Each school must have one paper and presentation from their school chapter if they wish to participate in the respective national competitions. The following topic and rules apply:

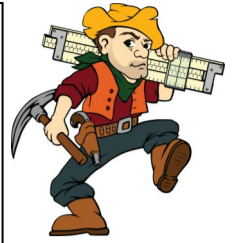
This year's competition will use the following topic from the 2016 National Daniel W. Mead Student Contest:

TOPIC: "When working in a foreign location, what defines the design standard which the engineer can rely on to have met his or her ethical obligation to provide a safe and sound engineering solution or design?"

The following can be used to stimulate, but should in no way limit, the discussion:

Engineers today in the global setting are having to evaluate different design guides, codes, standards and practices that are available to them in the region and select the most pertinent to their specific application that will meet their obligations as a professional engineer.

- When evaluating the different codes, standards and quality requirements, how is one to determine the minimum requirements that provide a good balance between local practices versus global best practices?
- Do the local codes and standards, which may be less stringent than the standards that the engineer is typically accustomed to, meet his or her ethical obligation as the design engineer?



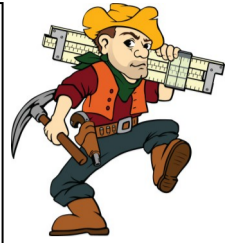
Technical Paper and Presentation Competition Rules

1. Papers are not to exceed 2,000 words in length
2. Must be written by only one person
3. Authors must be undergraduate students in good standing at the time of submission and at the time the award is made to be considered.
4. Should not have appeared in any publications other than in school or chapter publications
5. Entries should include a cover letter stating the name, ASCE/AEI member ID number, mailing address, phone number, and email of the author.
6. Reference citations of the papers should conform to official ASCE Journal Submission Guidelines, which can be found on the ASCE Publications website:

<http://ascelibrary.org/page/authors>
7. Each author will be expected to make a five minutes presentation (with an allowance of + or - 5 seconds without penalty). An additional five minutes will be allotted for questions and clarifications from the judging committee
8. The paper portion of the competition constitutes 50% of the final score, while the oral presentation accounts for the remaining 50%. A detailed breakdown is outlined on the following sheet.
9. One electronic copy must be submitted to Joel Cates at asce.mcsc@gmail.com. Papers must be received by April 1, 2016 to be considered for judging and evaluation

Winners will be selected by a panel of at least three judges identified by the host school. Prizes will be given to the authors and are as follows:

- 1st Place — \$100
- 2nd Place — \$50
- 3rd Place — \$25



Technical Paper Scoring Summary Sheet

Author's Name: _____

Date: _____

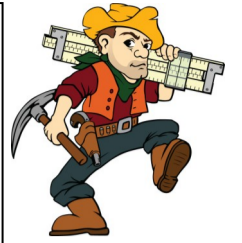
ASCE Student Organization Represented: _____

School Name: _____

<u>Paper Scoring Criteria</u>	<u>Score</u>
1. Adherence to topic	/10
2. Presence of original ideas and research involved	/10
3. Command of subject matter	/10
4. Spelling and grammar and length	/5
5. Overall clarity, organization, quality of paper and references	/15
<u>Paper Sub Total</u>	<u>/50</u>

<u>Presentation Scoring Criteria</u>	<u>Score</u>
1. Degree to which presentation addressed and supported key concepts of written paper and theme of contest	/10
2. Ability to communicate key concepts from written paper and to convince audience of their importance	/25
3. Personal bearing (appearance, poise, eye contact)	/5
4. Delivery style (reading, memorized, conversational), pronunciation and proper use of technical language and grammar, enthusiasm and voice projection	/5
5. Time (5 minutes +/- 5 seconds) 0.05 point penalty per second difference from allowance	/5
6. Errors in logic or facts (up to 10 points)	() Penalty
<u>Presentation Sub Total</u>	<u>/50</u>

Paper Sub Total	/50
Presentation Sub Total	/50
<u>Overall Sub Total</u>	<u>/100</u>



Captain Communications

This year, the Mid-Continent Student Conference will be creating a GroupMe* in order to communicate more efficiently between the different captains. This will be used to update captains of important dates, meetings, and other broad information when it comes to the logistics of the competition.

Emails will also be sent in reminder of important information. GroupMe messages will not be the primary communication standards and are to be used for general clarifications about the conference. This will mainly be used during the competition to clarify captain meeting times and locations and last-minute changes to the schedule.

This GroupMe will be open to all captains and other team officers who wish to stay in contact with the MCSC student representatives. Faculty members are also welcome to join the GroupMe, but please request permission before adding your Faculty Advisor to the list.

If you wish to be on the GroupMe, please fill out the form below and email asce.mcsc@gmail.com with the Subject Header reading "Captain GroupMe Request."

*GroupMe is an application and a group text messaging service, free to use and respond with other people. It appears as a separate phone number in your cell phone. Applicable to both iPhone and Android users. Standard text messaging rates apply.

**If you have already filled out this form from Mailer I, you do not need to send it in again.

**Please fill out the information below for each individual person wishing to join the GroupMe.
One email is sufficient per team.**

Name: _____

Phone Number: _____

Design Team: _____

Position: _____

School Name: _____

This confirms the person named above wishes to join the Captains GroupMe and receive text messages accordingly.