Keynote Speaker
Dr. Heather Brown
Department Chair and Professor
School of Concrete and Construction Management
Middle Tennessee State University

Dr. Heather J. Brown joined Middle Tennessee State University in August 2001 where she is currently department chair and professor of the School of Concrete and Construction Management. Her experience also includes five years of material testing and research for the Tennessee Department of Transportation and authoring and co-authoring more than 30 papers on several topics relating to concrete construction. Brown has been recognized by MTSU for the College of Basic and Applied Sciences Outstanding Grantsmanship, CBAS Overall Excellence and MTSU Faculty Who Make a Difference. She was an Influential Women in Business in Rutherford County in 2015, and more recently, she was elected as Fellow and Board of Director for the American Concrete Institute.

Brown serves as faculty advisor for American Concrete Institute, Prestressed/Precast Concrete Institute and National Association of Women in Construction, and she coordinates volunteer concrete projects for students for the community. She began her teaching career at Tennessee Technological University, where she earned a Bachelor of Science, a Master of Science and a Ph.D. in civil engineering. Brown resides in Lascassas, Tennessee with her husband J. Chris Brown, a mechanical engineer for Nissan North America, and their sons, Mason and Wyatt.

Registration Now Open!
PRE-REGISTRATION FEE: $25
WALK-IN REGISTRATION FEE: $30
Seating is limited. Register early!
Lunch is included.
To register, visit:
www.ColumbiaState.edu/STEM-GiRLS

Sponsored by:

Columbia State Community College
1665 Hampshire Pike
Columbia, TN 38401
For registration information, please contact Freda Werner 931.540.2710 or Andrew Wright 931.540.2678

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Did You Know?

• Only 8.9% of Tennessee college degrees and certificates are awarded in the STEM fields. (Source: Change the Equation)

• Less than 25% of STEM jobs are held by women. (Source: Economics & Statistics Administration)

• Salaries of women in STEM careers are 35% higher than the salaries of women in non-STEM careers. (Source: Economics & Statistics Administration)

STEM GiRLS Workshops

The STEM GiRLS workshops are designed to teach middle school girls about the different opportunities in STEM-related careers as they begin to think about their futures.

Stations will be set up around campus for the girls to observe and participate as Columbia State faculty and guest presenters guide the girls through interactive hands-on activities.

Topics include animal science, astronomy, biology, chemistry, engineering, math, computers and more. The following are just a few of the workshop stations:

- Zoological Interaction
- Livestock Optical Examination
- LEGO Car Assembly
- Chemistry Flame Tests
- Self-Sustaining Ecosystems
- The Mystery Box
- Creating Holograms
- DNA Extraction
- Make Your Own Lip Gloss

Parents & Teachers

Parents and teachers are invited to stay and attend the adult session, which will provide insight on how to encourage and guide young women in STEM classes and careers. STEM GiRLS will demonstrate to parents how their daughters can have rewarding and high-paying careers in a variety of STEM fields.

What is STEM GiRLS?

• One-day Science, Technology, Engineering and Math forum
• Open to 6th, 7th & 8th grade girls
• Interactive hands-on STEM activities
• Provides awareness of STEM careers available to girls in Tennessee
• Promotes and encourages the success of girls in STEM in order to raise awareness of the under-representation of females in STEM fields
• Promotes the scientific and technological understanding of STEM fields

STEM Careers

Architect
Astronomer
Biolgist • Chemist
Computer Systems/Game Designer
Electronics
Energy Technology
Environmental Management
Mathematician
Physicist • Engineer
Plant/Soil Scientist
Robotics Research

and more!