

TSIN INNOVATIVE EDUCATORS: INNOVATIONS IN K-20 STEM EDUCATION CONFERENCE

May 31, 2018 | 9 AM - 3 PM | University of Memphis - Lambuth Campus

8:30 - 9:00

REGISTRATION

9:00 - 9:15

OPENING REMARKS

9:15 - 9:45

KEYNOTE ADDRESS

David Blackwood / *West TN River Basin Authority*

9:45 - 10:30

BEST PRACTICES FOR ENGAGING STUDENTS IN STEM

Join us for an exciting conversation around engaging students in STEM. Panelists will share insight for reaching students through diverse approaches and igniting interest in STEM majors and careers!

Rebecca Bowers / *South Gibson County High School*

Shelli Brasher / *Robotics Education & Competition Foundation*

Mike French / *Northview Middle School*

Angie Pickens / *Innovative STEM Academy for homeschool students*

10:30 - 10:45

BREAK

10:45 - 11:30

INSPIRING YOUTH IN STEM - (STEM STUDENT PANEL)

This session focuses on insight from an oft overlooked resource- STEM students! These delightful undergraduate STEM majors will share their experiences, motivations, and career goals and will answer questions about how to inspire K-12 students to pursue STEM majors and careers, things they wish they had known before entering college, and what they hope to experience in the workplace. Come prepared with questions!

11:30 - 12:15

LUNCH & NETWORKING

12:15 - 1:15

CONCURRENT SESSIONS

BREAKOUT SESSION I:

TRANSPORTATION-STEM: BRIDGING THE GAPS

Join TDOT officials as they share information about their TRAC program and FREE STEM resources for teachers!

SESSION LEAD: **Paige Harris** / *Senior Transportation Project Specialist, TDOT*

12:15 - 1:15

CONCURRENT SESSIONS (CONT'D)

BREAKOUT SESSION II: SOLAR APPLICATIONS IN AGRICULTURE

Solar production of electricity can be used in agriculture in many ways. What are the applications? How do we calculate the amount of electricity produced? How do we design solar systems for the different applications? Join this session to learn how to integrate these concepts (and more) into your math and science classrooms!

SESSION LEADS: **Tim Roberts** / *Director of Education, Agricenter*

BREAKOUT SESSION III: INTRO TO K-12 ROBOTICS

By its nature, the study of competitive robotics not only encompasses all four pillars of STEM education, but also encourages important life skills like teamwork, communication, and project-based organization. This session will give you the information, tools, and local connections to successfully implement a competitive robotics team in your school or organization.

SESSION LEADS: **Shelli Brasher** / *Regional Support Manager, Robotics Education & Competition Foundation*
Daniel Kohn / *Associate Professor, Department of Engineering Technology, University of Memphis and First Robotics Competition Organizer/Technical Mentor*

BREAKOUT SESSION IV: COMPUTER SCIENCE IN MIDDLE GRADES

Join us for a workshop introducing the STEM Hub's new FREE online modules for computer science in middle grades.

SESSION LEAD: **Dr. Lee Allen** / *Associate Professor, Department of Instruction and Curriculum Leadership, College of Education, University of Memphis*

1:15 - 1:30

BREAK

1:30 - 2:30

CONCURRENT SESSIONS (REPEAT ABOVE)

2:30 - 3:00

CLOSING SESSION

