February 15, 2023. The event is hosted annually by the MTSU Tennessee STEM Education Center at the Tennessee State University. Carly Altman, Graduate Student and TSEC Student Worker, presents research in the field of Agriculture. Sherry Schafer, TSEC Administrative Assistant, and TTU staff oversee S. Kevin Ragland, Ph.D., TSEC Associate Director, addresses the implementation of evidence-based teaching strategies in undergraduate STEM classrooms. The keynote speaker for the event was Dr. Andrews' address focused on the student spotlight below.

Brooke is a Psychology major and a talented artist. She received from Battelle Education through the Tennessee STEM Innovation Network to conduct teacher workshops on the refraction of light. For TSEC Coordinator Casey Penston, “Watching the children work diligently on the data science experience for students and faculty. He holds a Ph.D. in Data Science and has a keen eye for detail and insights. Armia is currently a M.S. student, Data Science Director and Professor of Biology, at the Data Science Institute at MTSU. He uses his data skills to develop innovative educational tools and curricula.

Dr. Katherine Mangione, Associate Professor in College of Education, has been a driving force behind the development of the Data Science Institute. She is committed to improving STEM education outcomes both locally and nationally. Early each year, we invite the MTSU faculty and staff to participate in the Tennessee STEAM Festival, which brings science, technology, engineering, art, and mathematics to life! The festival is a celebration of creativity and innovation in STEM education.

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Message from the Director

Gregory T. Rushton, Ph.D.

For your interest in our work and for the time to connect with our brief summary of recent activities. TSEC is proud to contribute to TSF’s efforts by creating excitement around STEM education and increasing the awareness of the importance of STEM in our future.

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Agricultural, Data Science, and Engineering education, and welcome additional opportunities going forward. Thank you for your interest in our work and for the time to connect with our brief summary of recent activities. TSEC is proud to contribute to TSF’s efforts by creating excitement around STEM education and increasing the awareness of the importance of STEM in our future.

TSEC Directors and Associate Directors forged new partnerships with internal and external partners to prepare proposals requesting nearly $3M in new support for our initiatives in precollege and postsecondary settings. Dr. Kevin Ragland, in partnership with the Data Science Institute, is working to enhance STEM education outcomes both locally and nationally. In precollege settings, TSEC continues to expand its reach and impact each year. TSEC Directors and Associate Directors forged new partnerships with internal and external partners to prepare proposals requesting nearly $3M in new support for our initiatives in precollege and postsecondary settings. Dr. Kevin Ragland, in partnership with the Data Science Institute, is working to enhance STEM education outcomes both locally and nationally.

The 17th annual Southeastern STEM Education Research Conference hosted scholars from six states and the District of Columbia. The conference provided a platform for sharing research and best practices in STEM education. Dr. Andrew Chesnut, TSEC Associate Director, presented his latest research on the relationship between technology and student engagement in STEM classrooms.

The keynote speaker for the event was Dr. Andrews. His address focused on the implementation of evidence-based teaching strategies in undergraduate STEM classrooms. The keynote speaker for the event was Dr. Andrews. His address focused on the implementation of evidence-based teaching strategies in undergraduate STEM classrooms.
TSEC is fortunate to have formal partnerships with faculty across STEM education on campus. One of the ways we achieve this is through TSEC’s Active Grants program, which provides funding for research projects that support STEM education and outreach. For example, the Center for Research on Undergraduate Mathematics Education (CURE) has been awarded a grant of $214,350 for its work on Deeper learning professional development for high school agriculture teachers, with Jin Y. of the National Science Foundation (NSF) as the principal investigator. Another grant awarded to the Center is from the NSF INCLUDES Alliance: The Alliance of Students with Disabilities for Inclusion, Networking, and Transition Opportunities in Active Grants, with requested funding of $701,771.

One of the key objectives of TSEC is to improve K-20 STEM education both locally and nationally by identifying and addressing critical issues that promote access, equity, innovation, and leadership. To achieve this, TSEC welcomes any permanent, full-time faculty member, from any academic unit, with a demonstrated commitment to the mission of the Center.

The mission of TSEC is to improve K-20 STEM education by identifying and addressing critical issues that promote access, equity, innovation, and leadership. To achieve this, TSEC invites 5th-12th grade students to compete at STEM EXPO, a student organization supported by the MTSU campus. The event offers opportunities for involvement and faculty-mentored research projects.

The SOAR Social was organized as a research activity, with the aim of helping students to develop skills in research and becoming more involved in STEM education. The group was also delighted to receive a surprise visit from Dr. Rushton, Director of the Tennessee STEM Education Center, who shared his research experiences with students and opportunities for involvement in STEM education.

In addition to the SOAR Social, TSEC hosts various events to promote student involvement with community outreach events, such as the upcoming STEM EXPO. TSEC houses research-active faculty who seek student support with various research initiatives.

In conclusion, TSEC is committed to improving K-20 STEM education by identifying and addressing critical issues that promote access, equity, innovation, and leadership. The Center welcomes any permanent, full-time faculty member with a demonstrated commitment to the mission of the Center, and provides funding through its Active Grants program. The Center also invites 5th-12th grade students to compete at STEM EXPO, a student organization supported by the MTSU campus.

Devise, one will be provided for you.

Reference: