1st Quarter LaSTEM Advisory Council Meeting
Virtual
1/20/22
1st Quarter LaSTEM Advisory Council Meeting January 20, 2022 | 10:00 a.m. – 11:30 a.m.

10:00 am - 10:15 am  
- **Agenda Overview** Welcome (Dr. Clint Coleman, LaSTEM Program Administrator)
  A. New Member Introduction – Dr. Lindsey Keith-Vincent (LaTECH)
  B. Roll Call
  C. 3rd and 4th Quarter Meeting Minutes Approval

10:15 am – 11:15 am  
- **Council Discussion** (Dr. Clint Coleman)
  A. Outcomes from the Director’s Retreat
  B. LaSTEM Summit (February 8th)
  C. Regional STEM Network Center Report-Out (Region 2 and 6)

11:15 am – 11:30 am  
- **Other Business**, Adjourn (Dr. Clint Coleman)
  A. Public Comments
  B. LaSTEM Quarterly Meetings for 2022
    - Thursday, April 28, 2022, Time TBD
    - Thursday, August 18, 2022, Time TBD
    - Thursday, November 17, Time TBD
Welcome to the LaSTEM Council!

Dr. Lindsey Keith-Vincent

Dr. Lindsey Keith-Vincent serves as the Associate Dean of Research, Outreach and Innovation in the College of Education and the Director of the Science and Technology Education Center (SciTEC) at Louisiana Tech University. She was appointed to the commission by Governor John Bel Edwards. Dr. Vincent is a first-generation college completer and a graduate of Ouachita Parish High School. She earned a B.A. in Secondary English Education, an M.S. in Adult Education, certification in Biology education, and an Ed.D. in Educational Leadership from Louisiana Tech University. She holds a certificate in Positive Psychology from the University of Pennsylvania as well as a certificate from Johns Hopkins University in contact tracing, both acquired through Coursera. She also holds a certificate in Digital Wellness from the Digital Wellness Institute and serves as part of the founding team for the new LSU Health Sciences and Louisiana Tech University Digital Literacy and Well-Being Collaborative.

Dr. Vincent has helped launch innovative programs including the first cyber education certificate with colleagues at Cyber.org and the UTeachTech teacher preparation model created at UT Austin and supported with seed funding from the National Math Science Initiative and the Howard Hughes Medical Institute. She has served as PI or CoPI on a number of funded efforts including some sponsored by the National Science Foundation, NASA, US Department of Education, Louisiana Department of Education, and the Charles Mott Foundation. She was selected as the 2021 William Craig Outstanding University Educator by the Louisiana Science Teachers Association, the Vantage Visionary Educator, and the LACUE Post-Secondary Regional Educator of the year and has served on the Louisiana Sparta Groundwater Commission, the National Girls Collaborative leadership team, as Co-Director of the Louisiana branch of the International Technology and Engineering Educators Associate (ITEEA) and is a graduate of the University of Louisiana System Management and Leadership Institute.

Lindsey’s experiences and love for students have shaped her aspirations and guided her desire to help provide authentic educational experiences for every learner. In her free time, she likes to learn new things and travel with her children and husband, Matthew, a secondary math educator.
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LaSTEM Director’s Retreat

- First Annual LaSTEM Director’s Retreat took place at NWSU CenLa campus on 11/11/21

- Dr. Kristine Strickland, Chancellor Fletcher Technical Community College served as the facilitator

- Act 392 and Regional STEM Center quarterly progress reports were discussed.
First Annual LaSTEM Director’s Retreat

- Representatives from LDOE, BoR, LaSTEM regional staff, as well as Senator Hewitt attended.

- Discussion revolved around shared and unique goals for the regional centers.

- Three major goals of LaSTEM were discussed and accepted by each of the regional centers.
LaSTEM Goal 1: Build strong foundations for STEM literacy by ensuring that every American has the opportunity to master basic STEM concepts and to become digitally literate.

LaSTEM Goal 2: Increase diversity, equity, and inclusion in STEM and provide all Americans with lifelong access to high-quality STEM education, especially those historically underserved and underrepresented in STEM fields and employment.

LaSTEM Goal 3: Prepare the STEM workforce for the future—both college-educated STEM practitioners and those working in skilled trades that do not require a four-year degree—by creating authentic learning experiences that encourage and prepare learners to pursue STEM careers.

Discussions around metrics to measure each of these goals are ongoing. Will integrate into quarterly progress reports.
2022 Annual LaSTEM Summit

- Back in person at the Raising Cane’s River Center
  - This year’s theme focuses on Workforce
  - Industry breakfast (50 attendees)

- Registration is open!
  - 30 Presentations with topics from preK to workforce
  - 5 Teacher workshops
  - 3 Industry-led Panel Discussions
  - Nationally known keynote (next slide)
  - 4 mobile STEM outreach vehicles
  - Robotics Room (VEX, REC, First)
  - E-Sports Room
  - 30+ booths (vendors/non-profits/school groups)

- Awareness campaign started in November at LaSTEM Regional Centers and Board of Regents

- 359 attendees already registered!
Keynote: Dr. Steven Pearlman

Author of “America’s Critical Thinking Crisis: The Failure and Promise of Education”

- Co-Founder of The Critical Thinking Institute
- Title of his presentation: ‘Solving for Academia’s sySTEMic Critical Thinking Crisis’
- 600 signed copies of his book for attendees
LaSTEM Advisory Council Meeting
January 20, 2022
LaSTEM Region 2 Network Center + LSU Cain Center for STEM Literacy = Research-based STEM Integration Framework

Relevant Career Connected Pathways & Educator Support

Member Support
OUR CHALLENGE

Everyone must be equipped with the set of knowledge, skills and mindsets associated with STEM to enter the workplace and then succeed in both middle- and high-skill jobs.

A MAJOR OBSTACLE

New “Future-of-Work” skills and experiences are hard for students to acquire in traditional education models.
If we can enhance practices of all stakeholders who influence the learning of children, youth, and young adults, we can increase access to high-quality and inspiring STEM and college and career readiness opportunities and pathways.
STEM Integration Framework

Leadership & Program Design
Well-represented leadership team that builds a vision and data-driven plan for equitable STEM-rich programs and school culture aligned with post-secondary options and future workforce opportunities.

Educators
Collaborative environment, peer mentoring, and professional development for instructional methods, leadership skills for advising students, and 3) Business and industry workforce awareness of future workforce needs.

Curriculum
Project-based STEM instruction and interdisciplinary curriculum aligned to opportunities to gain “future of work” competencies in both formal/informal settings.

Student Engagement
Meaningful engagement for 1) connecting students (and educators) with real-world career advice and exposure, 3) offering programming, and 4) exposing students to opportunities.

Advocacy & Sustainability
Advocate for policies that provide equitable access to STEM education and promote continuous evaluation and partnerships to enhance sustainability of STEM programs.
One-Stop-Shop designed to streamline systems that will increase student access to STEM Experiences, DE Coursework, Credentials and Support

- Over 100 LSU A&M, LSUA, LSUE, and LSUS courses for college/HS credit
- Over 30 LSU STEM Pathways courses in Biomedical Sciences, Computing, Digital Design & Emergent Media, Pre-Engineering (many leading to IBCs)
- Academic development, after-school, and summer programs for students
- Integrating highly motivating programs such as Esports and/or Aquaponics
- Academic advising and human resource support
- STEM Framework for planning
6-12 Pathway Cohorts (160) + PK-5 Cohort (20)

General PD

Learning Tour Districts) (2)

Bi-monthly STEMTalks

- Instructional strategies such as PBL, content knowledge & technology; Framework; Ongoing coaching
- STEM outreach and mentoring girls; Code.Org workshop
- Texarkana ISD (Dual Enrollment + Elementary STEM)
- Planning for STEM; Learning Blade; Virtual office hours
- Panels and presentations: Listening to Professional Development
Visits, meetings, events, & surveys

- STEM highlights, needs, challenges and areas of mutual interest and expertise
- Introduce LaSTEM and goals of CAS
- STEM integration awareness of and use of Framework as a tool
- Catalyze future work
● STEM outreach & mentoring practices {Mentoring Playbook}
● Professional development; {Summit}
● Catalyze/develop/co-host projects
● Special focus on A.L.I.C.E. population
● Pledge to Mentor Campaign
● Membership growth (from 12 to 130)
Leverage Partners for Outreach

Engaging and supporting multi-sector partners needed for advice/outreach
Communicate & Champion

CapitalAreaSTEM.org

- Database for locating resources and learning opportunities
- Latest news and promote opportunities
- Targeted marketing newsletter
- Member recruitment and management
Building a Community Around STEM and Integrating STEM into PreK-16

LaSTEM Advisory Council Meeting
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Working Together to Promote STEM in Region 6

- Industry Partners
- Community Organizations
- Economic Development Agencies
- Higher Education Institutions
- PreK - 12
CenlaSTEM Goals & Progress

- Collaborative Communication
- Comprehensive Catalog
- Be the Voice
CenlaSTEM Goals & Progress

- Foster Involvement
- Regional Workforce Gaps and Needs
- Strategic Planning
CenlaSTEM Goals & Progress

- Contribute to a Statewide Stem Expansion Process
- New STEM Programs
- Leverage Resources
Together we can make a difference!