

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



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

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.



AGENDA LaSTEM Director's Retreat November 11, 2021 9 am- 4pm

- I. Welcome (9 am- 9:15 am)
 - a. Dr. Clint Coleman, Program Administrator of LaSTEM/Cybersecurity
 - Introduction of our facilitator, Dr. Kristine Strickland, Chancellor, Fletcher Technical Community College
- II. Ice Breaker Session (9:15 am 9:30 am)
- III. Act 392 (9:30 am 10:15 am)
 - a. What is included?
 - b. What are we doing, what are we not doing?
- IV. Break (10:15 am-10:30 am)
- V. SWOT Analysis of ACT 392 (10:30 am 11:30 am)
- VI. Closing the Gaps (11:30 am 12:00 pm)
- VII. Lunch (12:00 pm 12:30 pm)
- VIII. Creating our Vision and Promise to LA (12:30 pm 1:30 pm)
- IX. Telling our Story (1:30 pm 2:15 pm)
- X. Break (2:15 pm 2:30 pm)
- XI. Engaging our Constituents and Gathering Data (2:30 pm 3:00 pm)
- XII. Parking Lot and Other Topics (3:00 pm 3:30 pm)
- XIII. Adjournment 3:30 pm

The Board of Regents is an Equal Opportunity and ADA Employer

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



First Annual LaSTEM Director's Retreat

- 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



When

Tuesday, February 8, 2022 from 8:00 AM to 4:00 PM CST

Add to Calendar

When

Raising Cane's River Center, Baton Rouge, LA 275 S River Rd Baton Rouge, LA 70802



Please join us at the rescheduled LaSTEM Annual Summit on February 8th, 2022! We are back in person at the Raising Cane's River Center in downtown Baton Rouge. Come learn about all the great things LaSTEM has been up to this year.

Register Now!

The format for the Summit includes: 1) Three moderated panels that will focus on listening AND responding to the workforce needs of business and industry and promoting more women and girls in STEM; 2) Promising practice breakout sessions that will focus on successful college and career readiness practices and programs provided by businesses, education, and/or community organizations that are working; 3) Live demonstrations by students; and 4) Vendor presentations.

Keynote Speaker: Dr. Steven J. Pearlman

"Solving

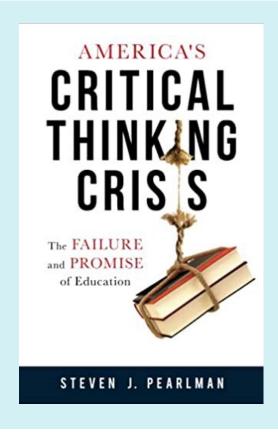
for Academia's sySTEMic Critical Thinking Crisis". What's the state of STEM education and critical thinking? What's the difference between the scientific method and critical thinking? Is mathematical thinking critical thinking? What is the current state of STEM education and critical thinking outcomes relative to other disciplines? And if you're STEM educator who wants more critical thinking from your students (and who wouldness).

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



[Building STEM Capital in Region 2]

LaSTEM Advisory Council Meeting January 20, 2022







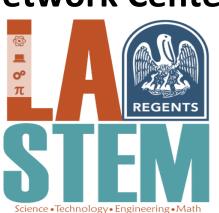






Who We Are

LaSTEM
Region 2
Network Center





LSU
Cain Center for STEM
Literacy





Research-based STEM Integration Framework

Relevant Career
Connected Pathways
& Educator Support

Member Support



Theory of Action

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.





Highlights of Our Work

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.

Community **Educators** Skilled Students **Business** Communicate & Champion

OUR APPROACH TO INCREASING ACCESS

Support and Enhance Resources

Systemic Change Capacity Building Design & Deliver PD STEM Integration LSU One **Grow Network Leverage Partners**



STEM Integration Framework

What is STEM and why STEM skills are so

IMPROVE

CREATE

important? Why does a STEM Talent Gap exist? How do we grow STEM programming?

ASK

Form a team to

guide the vision

PLAN

What skills, knowledge and

for our students?

habits in mind do we envision

IMAGINE

Design - SMART Goals that are

innovative BUT fit the nature and

scope of your vision & existing

practice

RESOURCE: A FRAMEWORK for Planning, Integra **Practices Aligned to Workforc**

Leadership & Program Do

Well-represented leadership team that builds a vision and data-driven plan equitable STEM-rich programs and school culture aligned with post-seconda competencies.

Educators

Collaborative environment, peer mentoring, and professional development resources and instructional methods. 2) Leadership skills for advising stude growth mindset, and 3) Business and industry workforce awareness of futu

Curriculum

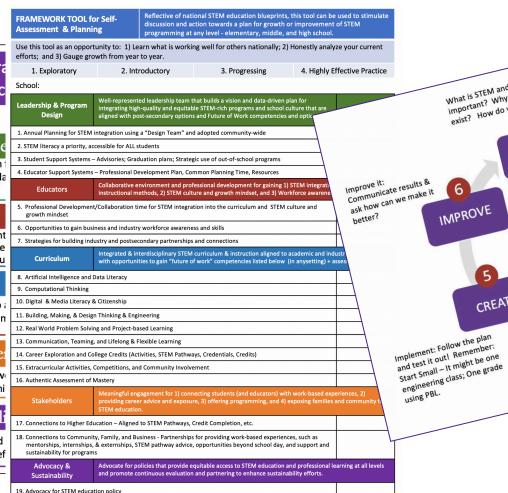
Project-based STEM instruction and interdisciplinary curriculum aligned to opportunities to gain "future of work" competencies (in both formal/inforn

Stakeholder Engageme

Meaningful engagement for 1) connecting students (and educators) with w career advice and exposure, 3) offering programming, and 4) exposing fami

Advocacy & Sustainabili

Advocate for policies that provide equitable access to STEM education and promote continuous evaluation and partnering to enhance sustainability ef



20. Continuous Partner Building, Planning, Continuous Improvement, and Communicating of Results



LSU ONE

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



(2

Professional Development

6-12 Pathway Cohorts (160) + PK-5 Cohort (20)

General PD

Learning Tour Districts)

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)

Pllanning for STEM; Learning Blade; Virtual office hours

Panels and presentations: Listening to





Grow Network Membership

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

GROUPS

School Districts Teacher Education Out-of-school-time Providers Women in STEM **Public Libraries** Region 2 Workforce Development **Regional Chamber Families**



Grow Network Membership



- 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)





{March}

{April}





Leverage Partners for Outreach

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



PRE-COLLEGE

Science









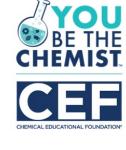








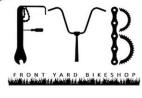
















louisiana east









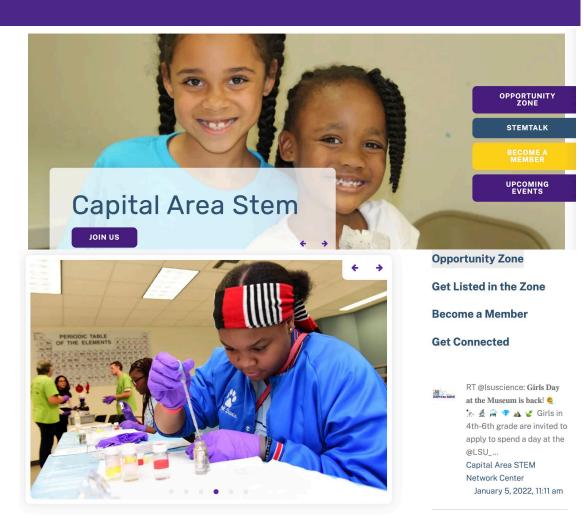




Communicate & Champion

CapitalAreaSTEM.org

- Database for locating resources and learning opportunities
- Latest news and promote opportunities
- Targeted marketing newsletter
- Member recruitment and management



Search programs that are making a difference

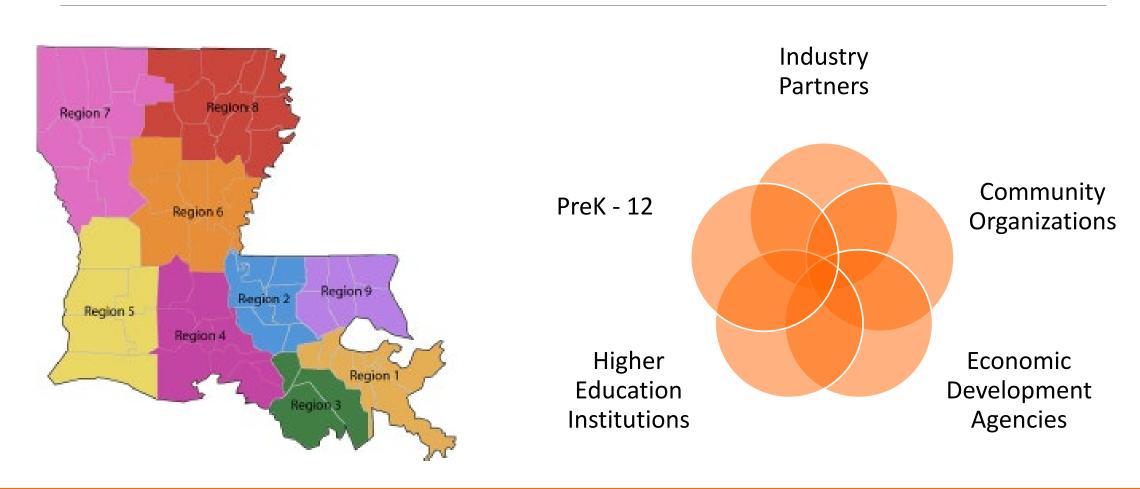
Proud to receive State the States Award from



Building a
Community
Around STEM
and
Integrating STEM
into PreK-16

LaSTEM Advisory Council Meeting January 20,2022

Working Together to Promote STEM in Region 6



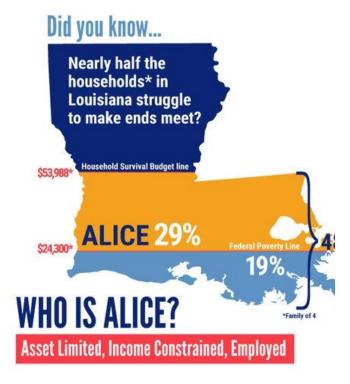
CenlaSTEM Goals & Progress





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



