

2nd Annual Louisiana STEM Summit

LASTEM 2019

Connect & Elevate



November 7, 2019

*Raising Cane's River Center
Baton Rouge, Louisiana*

AGENDA



7:00 – 8:00 AM *Volunteer/Exhibitor Arrival*

8:00 – 9:00 AM *Registration/Check-in*

9:00 – 9:45 AM *Breakfast*

9:00 – 9:45 AM *Opening Address*

Welcome- Dr. David Lafargue

Opening Remarks - Commissioner Kim Hunter-Reed , Senator Sharon Hewitt, Secretary Don Pierson, & Mayor Sharon Westin Broome

9:45 – 10:00 AM *Networking/Break/Exhibits*

10:00 – 10:40 AM *Breakout Session 1*

10:40 – 10:45 AM *Transition Break*

10:45 – 11:25 AM *Breakout Session 2*

11:25 – 11:30 AM *Transition Break*

AGENDA



11:30 AM – 12:10 PM *Breakout Session 3*

12:10 – 1:30 PM *Lunch*

12:45 – 1:15 PM *Keynote*

Jeff Weld, Executive Director for the Iowa Governor's STEM Advisory Council

1:15 – 1:30 PM *Networking/Break*

Exhibition Area

1:30 – 2:45 PM *Breakout Session 4*

Regional Teams

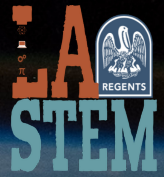
2:45 – 3:00 PM *Networking/Break*

Exhibition Area

3:00 – 3:30 PM *Q&A/Closing Comments*

*Jeff Weld, Executive Director for the Iowa Governor's STEM Advisory Council
Special Guest Speaker*

Breakout Session Descriptions



MEETING ROOM 1 - STEM OUTREACH

Title: Make STEM Pop!

Presenter: Lynne Nielsen and Lisa Dick, Louisiana Tech University

The participants will learn the what, why, and how of integrating STEM in their schools. After engaging in an activity and reflecting on the presence of the components of STEM education, questions will be answered about how to integrate STEM with a pop-up makerspace in a school or district.

Title: Greater New Orleans (GNO) STEM Library Lab...Showcasing Equipment Lending Co-op and Teacher Support Programming

Presenter: Todd Wackerman, STEM Library Lab

This session will showcase the GNO STEM Library Lab, an equipment-lending co-op that ensures teachers have access to hands-on materials for their classrooms. Participants will examine case studies of teachers at various grade levels/subjects working to implement a STEM curriculum for the students.

Title: Increasing STEM Access and Capacity with the Brain Food Truck

Presenters: Savannah Jones, Wendy Conarro, Kelly Perry, & Troy Williams, Southeastern Louisiana University

This session will explore 4 key components: 1) understanding the role and opportunities for youth STEM development using a student-centered approach; 2) defining student-centered learning (i.e makerspace); 3) aligning state standards to student-centered learning; and 4) understanding the next steps to access resources (blueprints, activities) to create a Brain Food Truck for your community.

Breakout Session

Descriptions



MEETING ROOM 2 - STEM STRATEGIES AND CURRICULUM

Title: FOCUS on Engaging Classrooms**Presenters: Mallory Benedetto and Anne Case Hanks, University of Louisiana-Monroe**

The participants will explore the benefits of a learner-centered classroom, learn what it means to create a learner-centered classroom, identify effective active learning strategies for science classrooms, and focus strategies on how to comprehend science at deeper level.

Title: Elevating the Science Standards with STEAM Fundamentals
Presenter: Laurie Salvail, National Integrated Cyber Education Research Center (NICERC)

This session provide educators with the the tools needed to access to all available resources NICERC has to offer including STEAM Fundamentals, a phenomenon-based, hands-on science curriculum designed to engage 2nd - 5th grade elementary students through real-world engineering design application.

Title: The Power of Transportable Skills: Project Lead the Way's Pathways
Presenter: Mary Wilson, Project Lead the Way

Participants will learn about the Project Lead the Way (PLTW) PK-16 pathways and how PLTW weaves career learning into their high-wage, high-demand STEM pathways. The session will focus on how the pathways are implemented into Louisiana schools and across the United States and how to start a STEM partnership with PLTW.

Breakout Session Descriptions



MEETING ROOM 3- STEM ECOSYSTEMS

Title: The Afterschool & STEM System-Building Initiative

Presenter: Andrew Ganucheau, Louisiana Center for Afterschool Learning (LACAL)

Participants will understand the role of STEM Ecosystems and how they can support the development & enhancement of STEM education in their community. A overview of the Afterschool & STEM System-Building Initiative and the role of STEM education in developing grit and self-control will be discussed.

Title: Overview of the North Louisiana STEM Alliance

Presenter: Heather Kleiner, Sci-Port Discovery Center

This session will focus on the North Louisiana STEM Alliance, funding strategies, key stakeholders/collaborative partners. Highlighted success stories will be presented. Participants will discover that embracing the philosophy of "enlightened self-interest" benefits all stakeholders when STEM learning in the community is a priority.

MEETING ROOM 3 - STEM WORKFORCE OPPORTUNITY

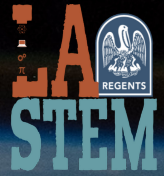
Title: STEM Workforce Development Through Louisiana's High School STEM Pathways

Presenter: Nathan Corley, Louisiana Department of Education (LDOE)

This session focuses on the STEM pathways offered by the state and will invite participants to partner with the LDOE to build a world class workforce development opportunity through STEM pathways. The participants will learn what eight STEM pathways are currently available, the major coursework and experiences associated with each pathway, and the pathway providers. The LDOE will outline levels of industry engagement and next steps for members of the business community to get involved with schools, providers, and the LDOE.

Breakout Session

Descriptions



MEETING ROOM 4 - STEM SCHOOL AND INDUSTRY PARTNERSHIPS -

Title: Building a Successful School Industry Partnership, the Ochsner Story

Presenter: Allison Sharai, Ochsner Health System

This session tells the Ochsner story on 3 steps for navigating a successful school-industry partnership: making connections, creating a collaborative plan, and growing in partnership. By sharing best practices, the participants will learn about the partnership from both industry and school perspectives.

Title: Lowering Barriers to STEM Education through Collaborative Partnerships

Presenter: Clint Coleman, Fletcher Technical Community College

The primary objective of this session is to share with attendees the Fletcher Technical Community College (FTCC) model to lowering the barriers for STEM education in the FTCC service area. We will discuss how working in a collaborative approach with local industry and non-profit partners allows us to maximize our impact in the region.

Title: More Than the Sum of Our Parts: Creating Dynamic Public, Private, Non-Profit Partnerships That Give Students Access to Technology Know How

Presenters: Mandy Migues, Lafayette Parish School System GEAR UP

This session will focus on the history of the GEAR UP/New Vision/CGI partnership and provide examples of past, present, and future initiatives that give students access to STEM. Participants will brainstorm ways to provide STEM experiences and how to secure the right partners to make those experiences the best they can be for students.

Breakout Session

Descriptions



MEETING ROOM 5- STEM IMPACT

Title: FIRST...Using robotics to prepare students for life in the 21st Century

Presenter: Tammy Pankey, Manager of Digital Learning and Instructional Design, FIRST

Participants will explore how the progression of FIRST programs prepares students to be college or career ready, with impacts towards STEM interest after just one year of participation. The session will explore the value of what FIRST can do when implemented in a single school or within an entire parish through testimonials and examples of a current working model with the Louisiana Public Schools. After 30 years of changing the lives of millions of participants with the individual, competitive team experience, FIRST now has STEM solutions for K-12 through classroom-based experiences. Be ready for opportunities to explore best practices that are realized through the implementation of FIRST programs both within the classroom and as afterschool extracurricular opportunities for your students.

Title: Delivering High Quality STEM Courses Through the LSU Certification Pathways

Presenter: Frank Neubrandner, Louisiana State University (LSU)

The Gordon A Cain Center at LSU has developed a series of high school courses that follow four pathways to success: Pre-Engineering, Digital Design & Emergent Media, Biomedical Science, and Computing. Participants will understand how the LSU STEM Certification pathways increase student interest and achievement in the field of STEM through high quality, standards-aligned curriculum. Strategies for how to bring the LSU STEM Certification pathway to new schools and districts will be provided.

Title: Robotics-Bringing STEM to Life!

Presenter: Diana Fultz, REC Foundation

Participants will be introduced to a supplemental educational resource that is free, easy to follow, and aligned with educational standards. Walk through a model lesson that provides opportunities for students to listen to, share with, and learn from their classmates. No robot? No Problem! Solutions to modify the lesson will be provided.

Breakout Session Descriptions



REGIONAL TEAM MEETINGS

8 Breakout Sessions facilitated by Regional Economic Development Organization (REDO) staff and Regional Stakeholders

Breakout Session 4 will be divided into 2 parts. For Part 1, the participants in each region will divide into three groups (PK-12, Higher Education, and Business/Industry) to discuss existing STEM needs. Part 2 will focus on regional needs to identify and implement Regional STEM Centers and Directors for the region.

MEETING ROOM 1

Region 1/Southeast Region/New Orleans

MEETING ROOM 2

Region 1& 2/Northshore Region/St Tammany & Florida Parishes

MEETING ROOM 3

Region 2/Capital Region/Baton Rouge & River Parishes

MEETING ROOM 4

Northeast Region/Region 7/Shreveport

MEETING ROOM 5

Southeast region/Region 5/Lake Charles

BALLROOM

Bayou & Acadiana Regions/Regions 3 & 4/Lafayette & Houma

BALLROOM

Central Region/ Region 6/ALEXANDRIA

BALLROOM

Northwest Region/ Region 8/Monroe