



20 **FULL** 24

STEAM

AHEAD

EDUCATOR SYMPOSIUM



**BUILD CONNECTIONS. LEARN NEW STRATEGIES.
ENGAGE WITH RESEARCH. GET INSPIRED!**





*Hosted by Centenary College of Louisiana
Department of Education
Center for Teaching and Learning*

2 0 2 4 T H E M E

KINETIC CONNECTIONS

Thursday, February 8, 2024

Opening Reception

5:30pm - 7:00pm

Meadows Museum of Art

5:00pm - Registration

Pick up your registration packet and tour the Meadows Museum.

Don't miss Sound+Light by Craig Colorusso!

5:30pm - Welcome

Dr. Karen Soul, Ph.D.

Vice President for Academic Affairs and Provost,

Professor of Education

Centenary College of Louisiana

5:45pm-7:00pm - Reception & Refreshments

Sponsored by the Cyber Innovation Center

Friday, February 9, 2024

**Full STEAM Ahead
Educator Symposium**

8:00am - 3:30pm

Bynum Commons and the
Hurley School of Music

7:45am - 8:30am

Registration & Breakfast

8:00am - 8:15am

Welcome

8:30am - 9:30am

Concurrent Session A

9:45am - 10:45am

Concurrent Session B

11am - 12:00pm

Concurrent Session C

12:15pm - 1:15pm

Lunch

1:30pm - 2:30pm

Concurrent Session D

2:45pm - 3:30pm

Door Prizes and Networking



Friday, February 9, 2024 Registration | 7:45am – 8:30am

Whited Room, Bynum Commons

Coffee and breakfast items will be available during registration. Coffee and water will be available throughout the conference.

Welcome and Breakfast | 8:00am – 8:30am

Whited Room, Bynum Commons

Dr. Christopher L. Holoman

A native North Carolinian, Christopher L. Holoman grew up in Raleigh and pursued his undergraduate education at the University of North Carolina, earning his Bachelor of Arts in international relations with concentrations in political science and economics. He completed his Master of Arts and Ph.D. degrees in political science from the University of Chicago. His scholarly work is in international political economy focusing on theories of international cooperation, especially in monetary policy.



Since assuming the Centenary presidency in 2016, Holoman has led the formation and implementation of a 5-year Strategic Plan, a new campus Master Plan, several significant improvements to the campus, and the introduction of six new intercollegiate sports. The College has also entered academic partnerships with LSU, LSUHSC, BPCC, Northwestern State, ULM, Baylor University, and the Edward Via College of Osteopathic Medicine.

Holoman and his wife, Connie, have two daughters, Allie Fritz and Fran Holoman. Allie and her husband Jamie are the parents of Milo and Casey, Fran and her wife Kate are the parents of Emery.



Concurrent Session A | 8:30am – 9:30am

Anderson Auditorium, Hurley School of Music

“Connecting to the Future: Building Networks, Enhancing Education”

Kevin Nolten, Cyber Innovation Center

Kevin Nolten is President of the Cyber Innovation Center and brings 15+ years of nonprofit and management expertise. Based in Northwest Louisiana, his career focuses on education, training, and workforce development in K-12, higher education, and industry.

Room 116, Anderson Choral Building

“Hooking Key Scientific Concepts for Below Proficient Readers Using Anchor Texts”

Leslie Birdon, Richwood High School

Incorporating science and engineering practices within scientific concepts can be a daunting task for below proficient readers. In this workshop, we will explore instructional strategies for modeling these practices using complex informational and literacy texts to increase sensemaking. Using a reading protocol, teachers as facilitators create unique learning experiences to engage students as scientists through cultural tools.

Whited Room, Bynum Commons

“Integrating Best Practices for Well-Being”

Kasie Mainiero and Shante’ Dukes, Caddo Public Schools

This workshop will incorporate best practices in teaching utilizing well-being strategies within the current curriculum. We will explore a science lesson together, emphasizing ways that wellness can be integrated into the lesson. We will share information regarding trauma-informed educational techniques and strategies for working with dysregulated students.



Room 120, Anderson Choral Building

“Women in STEM”

Summer Faust, Class of 2025, Centenary College of Louisiana

Members of the Centenary Women in STEM Club

The newly formed Centenary Women In STEM organization seeks to connect its members to opportunities, support, and education about navigating careers in STE(A)M and futures outside of this institution.

In this session, panelists will tell the story of how and why they took the initiative to establish their group and offer ideas for supporting student-led efforts to create community around STE(A)M.

Concurrent Session B | 9:45am – 10:45am

Whited Room, Bynum Commons

“A Full STEAM approach to Science Instruction”

Dennis “DJ” Pevey, Ponchatoula High School

Louisiana High School Teacher of the Year 2024

Centenary College of Louisiana, Class of 2010

In this active, hands-on workshop participants will explore topics from cellular biology, cancer, and even artificial intelligence as they engage in classroom-ready STEM activities that highlight the application of Science, Technology, Engineering, Art, and Mathematics to address real world challenges.



Room 201, Hurley School of Music

“Imagination and Innovation - Destination Imagination Hands-on STEAM Challenges”

Joan Turek, Linda Endicott, and Nancy Farley, Louisiana Destination Imagination

This hands-on session introduces critical thinking and teamwork through STEAM-based “instant challenges” used in the Destination Imagination creative problem-solving program. Participants will practice brainstorming strategies and collaborate to solve hands-on challenges using everyday materials. Attendees will leave with creative thinking strategies, sample instant challenges for students grades K-12, and an introduction to the DI program.

Anderson Auditorium, Hurley School of Music

“STEAMscapes - Connecting Beyond the Classroom, A Community Partners Panel”

Lauren Jones, Shreveport Green

Demetrius Norman, NWLA Makerspace

Monique Armand, Milam Street Kitchen Incubator & Community Kitchen

Dianne Clark, Sci-Port Discovery Center

Join us for a panel discussion showcasing Shreveport-Bossier community leaders and opportunities for STEAM education beyond conventional classrooms. Discover how local organizations integrate science, technology, engineering, arts, and math with play, community engagement, and real-world problem-solving. Learn about opportunities to connect your work to ongoing initiatives in our local area.

Room 120, Anderson Choral Building

“Art and Science of Voice: A Panel Discussion”

Jessica Alexander, Associate Professor of Psychology

Briana Sosenheimer, Assistant Professor of Music

Centenary College of Louisiana

Learn how an interdisciplinary approach to research, performance, and pedagogy can enhance our understanding of the art and science of the voice.



Concurrent Session C | 11am – 12pm

Whited Room, Bynum Commons

“Mr. Wizard presents... STEAM!”

Tom Daniel, First Baptist Church School

This session will feature hands-on demonstrations of air pressure, Newton’s laws of motion, gravity, Newton’s cradle, and other concepts. Learn how to showcase scientific principles and create your own STEAM magic show!

Room 116, Anderson Choral Building

“Synthetic Echoes: Art & AI in the Classroom”

Jessica Hawkins, Associate Professor of Communication

Kyra Rietveld, Assistant Professor of Art History

Centenary College of Louisiana

While written content generators like ChatGPT have received lots of attention, there’s a whole world of visual AI content that educators need to grapple with as well. This panel will explore the opportunities and challenges posed by visual AI generators like Midjourney and Dall-E-2. We will also discuss ways to integrate AI and how to impose necessary boundaries to maintain academic and artistic integrity.



**Anderson Auditorium
Hurley School of Music**

“Fieldwork as Action Research: Matching Data to Expectations and Values” (20 minutes)

Hahn Bridges, Junior, English Major, Secondary Education minor

Centenary College of Louisiana

Elizabeth Canady, Junior, Elementary Education Major

Centenary College of Louisiana

Two Centenary education students share how they use fieldwork and classroom observation for action research. They measured their on-site experiences against teaching and learning expectations, aligning their data collection accordingly. This helped them understand effective teaching methods while developing their skills as educators through reflection.

“STEM-Informed Coaching”

Todd Rinder, PhD, LAT, ATC, CSCS

Director of Sports Medicine

Centenary College of Louisiana

Regina Digilormo, Pre-Educator Instructor, Science Teacher, Volleyball/Softball Coach

Bossier Parish Schools

Kent Falting, Geometry, AP Statistics Teacher

Cross Country and Track Coach

Parkway High School

This panel discussion features coaches and other professionals from diverse backgrounds and disciplines. Discover how they integrate biological science, sports psychology, motivational strategies, and cognitive insights into their work with student athletes. Each participant will share their approach to enhancing athletic performance and fostering holistic development.



Lunch | 12:15pm – 1:15pm

Whited Room, Bynum Commons

“Calling from Afar” with Dr. James Eakin III

Learn how a composer inspired by the launch of the James Webb Space Telescope, designed ethereal concert work exploring colors and textures that paint glorious images of the cosmos.

James was born and raised in Shreveport, Louisiana. From an early age, he was drawn to his native blues and jazz as well as classical and film music, playing everything he heard by ear on the piano and experimenting with his own compositions. It wasn't until years later that he began formal music studies.



He earned a Bachelor of Music from Centenary College (2000), a Master of Music from Southern Methodist University (2003), and in 2007, received a Doctorate of Musical Arts in Music Composition at the Conservatory of Music, University of Missouri-Kansas City. James has had the privilege of studying with some of music's most prominent composers: John Corigliano, Jeff Rona, Jack Smalley, George Tsontakis, Bruce Broughton, Zhou Long, and Chen Yi.

Eakin's music catalog is prolific and spans genres from Concert Hall to Pop/Rock. He has composed works for Maya Angelou's 80th Birthday celebration, the President's Christmas Gala at the White House, and the Aspen Music Festival to name a few. James' hour-long “Flowers over the Graves of War” for Chorus, Soloists, and Orchestra premiered to a sold-out audience at Carnegie Hall and most recently, his “#twitterlieder: 15 tweets in 3 acts,” premiered by the San Francisco Gay Men's Chorus at Davies Symphony Hall, has taken the choral world by storm.



Concurrent Session D | 1:30pm – 2:30pm

Whited Room Bynum Commons

“Science and Story: A Panel Discussion”

Bellee Jones-Pierce, Assistant Professor of English

David Kordahl, Assistant Professor of Physics

Kaleb Atkinson, Sophomore Biology and English Double Major

Centenary College of Louisiana

This lively discussion will feature reflections from panelists whose teaching, scholarship, and creative work lie at the intersection of scientific inquiry and creative expression.

Room 116 Anderson Choral Building

“The World of Spatial and Three-Dimensional Creative Thinking in Research and Education”

Peter Siska, Louisiana State University – Shreveport

This presentation calls for the development of creative spatial and three-dimensional thinking in early education – it should be part of the general mandatory education from elementary school to university. With the rise of Geographic Information Systems and Remote Sensing, there is clear evidence that the time is now for more focused “spatial” education at all levels of academic involvement.

“Teacher Tech Development + STEM = Student Success”

Jeff Holcomb, Caddo Public Schools

This session is designed to engage middle school teachers in a hands-on approach that integrates teacher technology develop and the various STEM components. By the end of the session, teachers will leave with a strategic plan that would allow them to effectively implement two different summer institutes for middle school students.



**Anderson Auditorium
Hurley School of Music**

“Navigating the Future: AI in K-12 Education”

Jacob Hesselschwardt, Bossier Parish Schools and Louisiana State University – Shreveport

Kevin Nolten, Cyber Innovation Center

Robin Nichols, Cyber Innovation Center

Heather Kleiner - Regional LaSTEM Initiative, Sci-Port

Charlene Cooper, Cyber Innovation Center

Martha Patton, Bossier Parish Schools

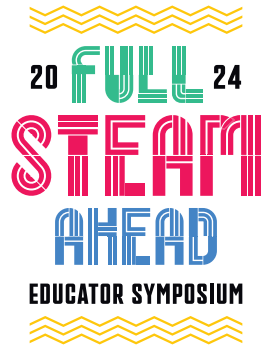
This panel discussion explores the historical evolution and current state of artificial intelligence (AI) in education. The session covers milestones from early experiments to intelligent tutoring systems, emphasizing successes and challenges. The panelists address AI’s present role in smart classrooms, personalized learning, and ethical considerations. Success stories and challenges in implementation, including the digital divide and teacher training, are discussed. Looking ahead, the conversation explores emerging trends and potential innovations in adaptive assessments and content creation. Audience participation is encouraged for a dynamic exchange, offering attendees a nuanced understanding of AI’s past, present, and future in K-12 education.

**Atrium
Anderson Choral Building**

Poster Session

Make your way to Anderson Atrium for cookies and our poster session. Explore a diverse array of topics, from research methodologies to emerging trends in STEAM education. Engage with presenters or simply review on your own.

Don’t miss our interactive display, “The Interior of the Cell,” created through an interdisciplinary collaboration of the Centenary Biology and Theater departments!



Closing – Door Prizes and Networking Session | 2:45pm – 3:45pm

Whited Room, Bynum Commons

Dr. Terrie Johnson, Assistant Professor and Chair of Education

*Dr. Rachel Johnson, Director of the Center for Teaching and Learning
Centenary College of Louisiana*



2 0 2 4 S Y M P O S I U M

SPONSORS

STEM Collective for Innovative Louisiana Stakeholders (SCILS)

This event is funded in part through a grant from The STEM Collective for Innovative Louisiana Stakeholders (SCILS) Region 8 LaSTEM Center. The Region 8 LaSTEM Center is a group of partners across north Louisiana focused on meeting the critical need for science, technology, engineering, and math learning and job skills in our region.

Cyber Innovation Center

Cyber Innovation Center (CIC), located in Bossier City, Louisiana, is the anchor of the 3,000 acre National Cyber Research Park and serves as the catalyst for the development and expansion of a knowledge-based workforce throughout the region. As a 501c3 not-for-profit corporation, CIC fosters collaboration among its partners and accelerates technology, research, and development. One of its primary missions is to develop a sustainable knowledge-based workforce that can support the growing needs of government, industry, and academic partners.

Centenary College of Louisiana

Located in the heart of Shreveport's historic Highland neighborhood, Centenary College of Louisiana is a selective, residential, national liberal arts college affiliated with the United Methodist Church. Founded in 1825, it is the oldest chartered liberal arts college west of the Mississippi River and is a member of the Associated Colleges of the South.

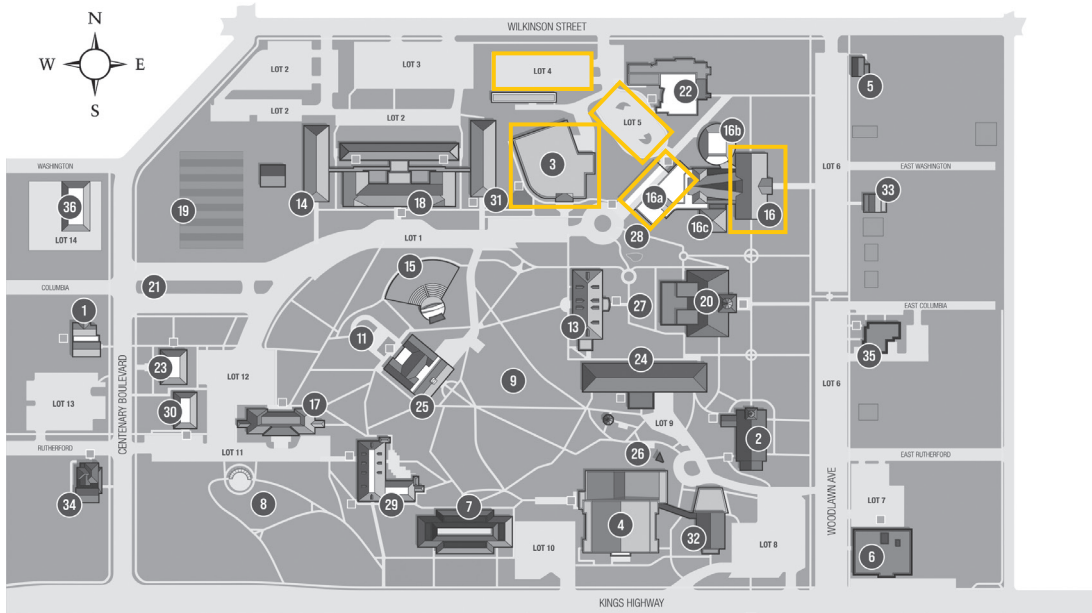
Acknowledgments

The organizers would like to thank the following groups and individuals at Centenary College of Louisiana for their support and collaboration.

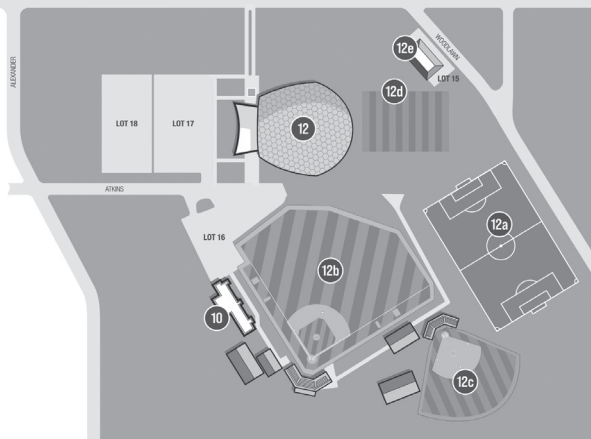
Dr. Chris Holoman
Dr. Karen Soul and the Office of the Provost
Dr. Cory Wikan and the Hurley School of Music
Dr. Rebecca Murphy and Dr. Scott Chirhart
Dr. Joan Turek and Dr. Emma Jordan
Kaylin Swoboda and Raiyne Brant
Department of Biology
Department of Theater

The Maroon Jackets
Alissa Klaus and the Meadows Museum of Art
Learning Commons Staff and Student Workers
Alumni and Family Relations
Facilities and Dining Services
Marketing and Communications

CENTENARY CAMPUS MAP



- 1. 2910 Building - Closed
- 2. Brown Chapel
- 3. Bynum Commons
 - Cafeteria
 - White Room
 - Audition Room
 - Hardy Room
 - Centenary Room
- 4. Centenary Fitness Center
 - Gymnastics
 - Cross Country
 - Cheer and Dance
 - Swimming
 - Golf (Golf Performance Center)
 - Track and Field
 - Kinesiology
- 5. Canterbury House
- 6. Centenary Square
 - Public Safety (DPS)
 - Psychology
 - Physics
 - Geology
- 7. Cline Resident Hall
- 8. Crumley Garden
- 9. Ed Leuck Louisiana Academic Arboretum
- 10. Facilities Office and Baseball
- 11. Frost Gardens
- 12. Gold Dome
 - Athletic Administration
 - Sports Medicine/Athletic Training
 - Men's Basketball
 - Women's Basketball
 - Women's Volleyball
 - Outdoor Facilities and Field House
 - 12a. Mayo Soccer Field
 - 12a. Lacrosse
 - 12a. Football
 - 12b. Shehee Baseball Field
 - 12c. Softball Field
 - 12d. Practice Field
 - 12e. Field House
- 13. Hamilton Hall
 - Business Office
 - Payroll
 - Human Resources
 - Finance and Administration
 - Provost's Office
 - Asst. Provost of Institutional Research
 - Grants and Endowment Office
 - Alumni & Family Relations
 - Registrar's Office
 - President's Office
 - Development
- 14. Hardin Residence Hall
- 15. Hargrove Memorial Amphitheatre
- 16. Hurley Music Building
 - 16a. Anderson Choral
 - 16b. Fazzal Instrumental Hall
 - 16c. Music Library
- 17. Jackson Hall
 - Foreign languages
 - English Department
 - Frost School of Business
 - Education Department
- 18. James Residence Hall
- 19. Jones-Rice Field
- 20. Magale Library
 - Information Technology (IT)
 - Learning Commons/Center for Teaching and Learning
 - Career Services
 - Global Engagement
 - Community/Civic Engagement
- 21. Main Entrance
- 22. Marjorie Lyons Playhouse
 - Theatre Department
- 23. Meadows Museum of Art
- 24. Mickle Hall
 - Biology
 - Chemistry
- 25. Moore Student Union (SUB)
 - Student Development and the Dean of Students Office
 - Student Leadership offices (Student Government Association, Centenary Activities Board, Conglomerate Student Newspaper, Pandora Arts Magazine, and Film Society)
 - Student Involvement (Orientation, Student Activities, and Student Organizations)
 - Student Conduct
 - Bookstore
 - Post Office
 - Randall's Cafe
 - Office of the Dean for Diversity, Equality, and Inclusion
 - Residence Life
- 26. Peavy Climbing Tower
- 27. The Quad
- 28. Riggs Plaza
- 29. Rotary Residence Hall Apartments
 - Health Services/Counseling (lower floor)
 - Christian Leadership Services (lower floor)



■ = Wheelchair Accessible

- 30. Sam Peters Building
 - Admission Office
 - Marketing & Communication
- 31. Sexton Residence Hall
- 32. Smith Building / Kilpatrick Auditorium
 - Chaplain
 - Christian Leadership Center
 - Religious Studies Dept.
 - Philosophy Dept.
 - Sociology Dept.
 - History/ Political Science Dept.
- 33. Symphony House
- 34. Turner Art Center
 - Art and Visual Studies Dept.
- 35. Wright Math Building
 - Math Department
- 36. 2800 Centenary Blvd.

LOT DETAILS

- Lot 1 Student, Staff, and Visitor Parking
- Lot 2 Student Parking
- Lot 3 Student Parking
- Lot 4 Any Decal
- Lot 5 Student Parking
- Lot 6 Any Decal
- Lot 7 Any Decal
- Lot 8 Student and Faculty Parking
- Lot 9 Faculty Parking
- Lot 10 Student Parking
- Lot 11 Student Parking
- Lot 12 Faculty and Student Parking
- Lot 13 Any Decal
- Lot 14 Any Decal and Marked Staff Spaces
- Lot 15 Faculty, Staff and Visitors
- Lot 16 Faculty, Staff and Visitors
- Lot 17 Faculty, Staff and Visitors
- Lot 18 Any Decal



More info at
centenary.edu/fullsteamahead