Today’s Agenda

I. Welcome and Roll Call
   • Martha Sealy, Executive Director, CTEC
   • Introduction of New Council Members
   • Annual LASTEM Legislative Report

II. Approval of 4th Quarter Meeting Minutes

III. Update from Capital Area STEM Center
   • Summer Dann, Region 2 Director
   • Ignite! LDOE collaboration

IV. LASTEM Summit Review

V. Ochsner Clinical School
   • Sue Barrosse, Enrollment Manager

VI. Louisiana Afterschool Network
   • Andrew Ganucheau, Director
   • LASTEM Toolkit collaboration
   • Louisiana Million Girl Moonshot Flight Crew

VII. Adjournment

Lunch Provided by Capital Area STEM Center
- Followed by tour of CTEC and offsite tours
Welcome From Host

Martha Sealy
Executive Director
CTEC
Welcome From Host

Computer Programming
High School

Gold  Rodriekus Cago
      East Baton Rouge CTEC

Silver Devonte Gills
      East Baton Rouge CTEC

Bronze Seth Anthony Sterling
      East Baton Rouge CTEC
# Welcome New Members!

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emily DiPalma</td>
<td>LA Workforce Commission</td>
</tr>
<tr>
<td>Rick Gallot</td>
<td>University of Louisiana System</td>
</tr>
<tr>
<td>Paul Helton</td>
<td>LA Economic Development</td>
</tr>
<tr>
<td>Camille Ivy-O’Donnell Bentin</td>
<td>LA Association of Business and Industry</td>
</tr>
<tr>
<td>Dr. Wendi Palermo</td>
<td>LA Community and Technical College System</td>
</tr>
<tr>
<td>David St. Etienne</td>
<td>Workforce Investment Council</td>
</tr>
</tbody>
</table>
I. Roll Call

2024 Legislative Annual Report
II. Approval of 4th Quarter minutes
III. Update from Capital Area STEM Center
Capital Area STEM Network Center

Highlights

SUMMER DANN
CASN Advisory Committee

• Dr. Frank Neubrander, Chair, LSU Cain Center for STEM Literacy
• Erin Blake, River Parishes Community College
• Haggai Davis, II, General Informatics
• Tonnisha Ellis, Baton Rouge Area Chamber
• Kim Fossey, Retired, Million Women Mentors Louisiana
• Dr. Dixie Gautreaux, Franciscan University
• Dr. Christopher Guillory, Southern University
• Cate Heroman, Knock, Knock Children's Museum

• Dustin Lafont, Front Yard Bikes
• Stephen Loy, Louisiana Technology Park
• Jamie Mixon, Louisiana Department of Education
• Mary Sealy, EBR Career and Technical Education Center (CTEC)
• Ann Trappey, Forte and Tablada Engineering
• Brandy Tyson-Polk, Baton Rouge Community College
• Marcus Williams, Williams Architecture
CASN Vision and Mission

THE CENTER WILL SERVE AS A HUB TO PROMOTE AND SUPPORT STEM RESOURCES INCLUDING ACTIVITIES, PROFESSIONAL DEVELOPMENT & EDUCATION FROM EARLY CHILDHOOD TO EMPLOYMENT. SPECIFIC FOCUS AREAS INCLUDE:

- CREATING OPPORTUNITIES FOR BUSINESS, INDUSTRY, AND COMMUNITY PARTNERS TO ENGAGE IN PK-16 CAREER-BUILDING PROGRAMS
- DEVELOPING STATEWIDE NETWORK OF STEM RESOURCES, COMMUNICATIONS
- STRENGTHENING OPPORTUNITIES AND SUPPORT FOR EDUCATORS
- PROMOTING BROAD FAMILY AND COMMUNITY SUPPORT FOR STEM EDUCATION
- LEAD COLLABORATIVE EFFORTS TO IDENTIFY & LEVERAGE FUNDING
Regional STEM Occupational Data

Major Industries in the Capital Region
(numbers show annual jobs change)

<table>
<thead>
<tr>
<th>Industry</th>
<th>Dec-22</th>
<th>Dec-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade, Transportation, &amp; Utilities</td>
<td>800</td>
<td>-1,400</td>
</tr>
<tr>
<td>Government</td>
<td>2,300</td>
<td>9,100</td>
</tr>
<tr>
<td>Private Education Services</td>
<td>100</td>
<td>600</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leisure &amp; Hospitality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Professional Development for Teachers

In summer 2023, hosted summer workshops for elementary, middle, and high school teachers in Baton Rouge, LA (Region 2) and Ruston, LA (Region 8).

“This is an opportunity we definitely need, an infusion for not only our region, but more so for the state,” emphasized one of the ambassadors.

[Diagram: The “STEM” problem is in computer science. 67% of all new jobs in STEM are in computing. 11% of STEM bachelor’s degrees are in Computer Science.]

[Logos: Louisiana Department of Education, CODE, LSU Gordon A. Cain Center for STEM Literacy]
IGNITE! Professional Development for K-5 Teachers

- $1.75 Million Contract with LDOE
- 40 hours of CS fundamental professional development for K-5 teachers
- Train the trainer model

Ambassador training started with kickoff days December 2, January 3 & January 6
- New Orleans (Region 1),
- LSU & Dutchtown High School (Region 2),
- SLCC (Region 4),
- The Region 5 STEM Center,
- LA Tech University, (Region 8).

Training concludes with Celebration Days:
- Sciport,(Region 7)
- LASM(Region 2)
- CGI (Region 4)
- GNO STEM (Region 1)
IGNITE! Professional Development for K-5 Teachers

- 125 Teacher Ambassadors
- 700+ Teachers across the state

- 15+ ambassadors
- 2-14 ambassadors
- 1 ambassador
Support of STEM Pathway Courses

Students completing pathways are not just prepared for post-secondary degrees, but also for careers.

CASN hired a bilingual STEM professional to ensure materials were accessible to Spanish-speaking students and teachers.
OPEN TO ALL MAJORS

CSC 2700
PROGRAMMING IN PYTHON

Looking for job skills? Do you want to learn a programming language & have the opportunity to earn a certification?

Learn the Basics of Python and have the opportunity to take the PCEP™ Python Certification Exam.

Sign up for CSC 2700
T Th noon to 1:20pm
In room 1221 PATRICK TAYLOR
WAY2WORK

“(I am hoping to gain) industry certification in Python in order to better job applications.”
Student in Python class

• Pilot Python certification CS course for undergraduates
• Leveraging the special topics in computer science course, CSC 2700
• Available to students from all majors on campus
• Course has an enrollment of **30 students**
• Offered T/Th with lab
• Students will have the opportunity to take the PCEP™ – Certified Entry-Level Python Programmer for free
SPARK Your Summer 2

Preparations are underway for Summer 2024 – July Sessions

“I felt so confident after last week’s electrical course I installed a ceiling fan in my home!” said another participant.
First row: Elizabeth Beckham, Turner Industries, Baraynia Robillard, Exxonmobil, Jessica Stegall, Danos, Alison Bordelon, LCTCS. Second row: Summer Dann, CASN, Darylene Harris, Shell, Renee Phillips, Napa Autoparts, Sarah Haneline, BASF
AmeriCorp VISTAs speak on a panel at the LASTEM Summit
Follow us or sign up for our newsletter for the latest updates, resources and stories showcasing the impact of STEM in our community!

#CASN #STEMeducation #Innovation
IV. LASTEM Summit Update
SAVE THE DATE

2024 LASTEM Summit
“Unlocking Potential, Launching Success”
October 9, 2024
CAJUNDOME and Convention Center
Lafayette, Louisiana

CALL FOR PRESENTERS AND EXHIBITORS

FREE TO ATTEND
V. Ochsner Clinical School
Sue Barrosse
Welcome, LASTEM Advisory Council!

Sue Barrosse, MBA, MSPH
Director of Enrollment Management
UQ-Ochsner Doctor of Medicine
Program Overview
Medical School

The University of Queensland

Top 50
global university

30+
teaching and
research sites

6
faculties

8
research
institutes

Ochsner Health

40
hospitals and
100 health centres

1,330+
physicians

90+
medical specialties

#1
hospital in
Louisiana
Doctor of Medicine Program
Medical School

Four-year postgraduate MD program
Full time study

Year 1 & 2
Brisbane, Australia

Year 3 & 4
New Orleans, Louisiana

Our medical graduates

• Eligible for ECFMG certification

• Practice in all 50 US states and qualify for practice in Australia
### MD Program Overview

**Structure**
- 3 year long and 2 courses
- Whole of program approach to assessment
- Continuous learning and development of competencies
- Professional identity as part of healthcare team

<table>
<thead>
<tr>
<th>Year</th>
<th>Program Description</th>
</tr>
</thead>
</table>
| **Year 1** | **Foundations of Medical Practice**  
Year-long, 16 Unit Course  
4 days structured teaching - 1 teaching - 1-day basic clinical skills |
| **Year 2** | **Developing knowledge and skills in Medicine**  
Year-long, 16 Unit Course  
3 days structured teaching – 2 days clinical and professional practice including longitudinal placements in generalist hospital outpatient & general practice settings |
| **Year 3** | **Clinical Immersion across the Lifecycle**  
Year-long, 16 Unit Course  
1 day a week structured teaching – 4 days clinical experience |
| **Year 4** | **Advanced Practice**  
1 day a week structured teaching – 4 days clinical experience | **Elective/Remediation** | **Transition to Practice (internship/residency)** |
## Learning experiences

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lectorials</strong></td>
<td>Traditional lecture with active learning through student engagement and problem solving</td>
</tr>
<tr>
<td><strong>Masterclasses</strong></td>
<td>Demonstration of a skills by an expert or auditing an individual’s consultation</td>
</tr>
<tr>
<td><strong>Integrated Symposia</strong></td>
<td>Learning interactively by being with experts in the field which may include patients or relevant community members</td>
</tr>
<tr>
<td><strong>Workshops</strong></td>
<td>Engage collaboratively in activities, discussion or debate in response to theoretical learning</td>
</tr>
<tr>
<td><strong>Clinical plenary</strong></td>
<td>Sessions led by clinical experts across the various disciplines with a focus on clinical relevance</td>
</tr>
<tr>
<td><strong>Team-based learning (TBL)</strong></td>
<td>Pedagogical strategy that engages student knowledge through individual testing and group collaboration</td>
</tr>
<tr>
<td><strong>Practicals</strong></td>
<td>Highly interactive, hands-on learning experiences</td>
</tr>
<tr>
<td><strong>Clinical and Procedural Skills</strong></td>
<td>Opportunity for you to practice and receive feedback in these hands-on practical sessions which will focus mainly on procedural skills</td>
</tr>
<tr>
<td><strong>Clinical and Professional Learning</strong></td>
<td>Foundations of History and Examinations; communication, history taking, physical examination and observation skills, as well as aspects of professionalism in practice</td>
</tr>
</tbody>
</table>
Medical School

Research Opportunities

UQ and OH both have long traditions of academic excellence and scientific discovery.

Students are eligible and encouraged to participate in all the research options available in the medical program.

Ochsner Student Research Hub allows students to connect with Ochsner Clinical School research supervisors to identify an area of interest:

• Ortho - Injury prevention for Overhead Athletes
• Racial Disparities in left Atrial Occlusion Procedures
• Spine Surgery
• OB- Genetic Testing
• Dementia
• Oncology Projects

Higher Degree by Research (HDR)
Master of Philosophy (MPhil)
Intercalated

Doctor of Philosophy (PhD)
Intercalated

Ochsner Student Research Hub
Medical Student Support

We provided with easy access to a network of staff and students who are there to assist you every step along the way.
Medical Student Support Services
- Wellbeing and Mental Health
- Time management, work-life balance
- Adjusting to Australia
- Exam prep and assignment Support
- Referral to specialist support services e.g. counselling, disability support, accommodation and learning support.

Wellbeing support

Personal Advisor Network
- High Impact, Quality Support Guides and Shapes Student Experience
- Fosters a spirit of Community and Connectedness

Academic support

UQ Ochsner Medical Societies
- Led by Faculty with expertise in Advising and Coaching
- Social Units that promote a Sense of Community within the Ochsner Cohort

USMLE Support
- United States Medical Licensing Exam – 4 Parts
- Step 1 – The Boards
- Step 2, Clinical Knowledge (CK)
- Step 3 – Multiple Choice and Clinical Case Simulations

Peer support

Student Societies
- UQMS – Univ of Queensland Medical Society
- OMSA Ochsner Medical Student Association

Special Interest Groups
- Student-led specialty interest group bringing together like-minded students.
USMLE Preparation

Step 1 Preparation

• USMLE Step 1 First Aid
• USMLE World Qbank
• 3 NBME Practice Exams
• OCS Step 1 Study Guide
• Dedicated USMLE Preparation Course in Year 2

Step 2 CK Preparation

• USMLE World Qbank
• Additional online resources
How do Students Perform on the USMLES?

Data as of 18 January 2024

<table>
<thead>
<tr>
<th></th>
<th>STEP 1</th>
<th>STEP 2 CK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Time Pass Rate</td>
<td>Average Score</td>
</tr>
<tr>
<td>All Students to Date</td>
<td>89% (n=1,078)</td>
<td>219*</td>
</tr>
<tr>
<td>Class of 2022 (n=87)</td>
<td>99% (n=87)</td>
<td>226</td>
</tr>
<tr>
<td>Class of 2023 (n=97)</td>
<td>90% (n=97)</td>
<td>229</td>
</tr>
<tr>
<td>Class of 2024 (n=73)</td>
<td>90% (n=73)</td>
<td>Pass</td>
</tr>
<tr>
<td>Class of 2025 (n=87)</td>
<td>85% (n=72)</td>
<td>Pass</td>
</tr>
</tbody>
</table>

*Only includes 3-digit scores
What is an International Medical graduate?
An international medical graduate (IMG) is a physician who received a basic medical degree from a medical school located outside the United States and Canada.

Certified by ECFMG
The Educational Commission for Foreign Medical Graduates (ECFMG) assess whether IMGs are ready to enter accredited residency programs in the United States.

Examination Requirements
IMG students must pass Step 1 and Step 2 of the United States Medical Licensing Examination (USMLE), which are the same examinations taken by U.S. and Canadian graduates.

Enter Residency Match
IMG students enter the National Resident Matching Program (NRMP) with all other medical graduates.
How do we Match?

Our graduates secure residencies in highly competitive programs, at leading hospitals across the US.
### How do students perform in the NRMP Match?

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of positions</th>
<th>Total Applications</th>
<th>UQ Ochsner</th>
<th>MD Seniors</th>
<th>DO Seniors</th>
<th>Non-US IMG</th>
</tr>
</thead>
<tbody>
<tr>
<td>2023</td>
<td>40,375</td>
<td>42,952</td>
<td>96%</td>
<td>94%</td>
<td>92%</td>
<td>59%</td>
</tr>
<tr>
<td>2022</td>
<td>39,205</td>
<td>42,549</td>
<td>98%</td>
<td>93%</td>
<td>91%</td>
<td>58%</td>
</tr>
<tr>
<td>2021</td>
<td>38,106</td>
<td>42,508</td>
<td>97%</td>
<td>93%</td>
<td>89%</td>
<td>55%</td>
</tr>
<tr>
<td>2020</td>
<td>34,266</td>
<td>40,084</td>
<td>95%</td>
<td>94%</td>
<td>91%</td>
<td>61%</td>
</tr>
<tr>
<td>2019</td>
<td>32,194</td>
<td>38,376</td>
<td>93%</td>
<td>94%</td>
<td>88%</td>
<td>59%</td>
</tr>
<tr>
<td>2018</td>
<td>30,232</td>
<td>37,103</td>
<td>95%</td>
<td>94%</td>
<td>81%</td>
<td>56%</td>
</tr>
<tr>
<td>2017</td>
<td>28,849</td>
<td>35,969</td>
<td>95%</td>
<td>94%</td>
<td>85%</td>
<td>52%</td>
</tr>
<tr>
<td>2016</td>
<td>27,860</td>
<td>35,476</td>
<td>93%</td>
<td>94%</td>
<td>84%</td>
<td>50%</td>
</tr>
<tr>
<td>2015</td>
<td>27,293</td>
<td>34,905</td>
<td>90%</td>
<td>94%</td>
<td>83%</td>
<td>49%</td>
</tr>
</tbody>
</table>
Academic Entry Requirements
# Medical School

## Academic Entry Requirements

<table>
<thead>
<tr>
<th>MCAT</th>
<th>GPA</th>
<th>SUBJECT prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>504</td>
<td>B average</td>
<td>Complete two subject prerequisites.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Second-Level</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Integrative Cell and Tissue Biology* and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Systems Physiology*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*or equivalent courses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UQ online option to complete</td>
</tr>
</tbody>
</table>

A minimum total of 504 in the Medical College Admission Test (MCAT)

A minimum Grade Point Average (GPA) of a B average cumulative is calculated in your Key Degree, either Bachelor or Masters degree, the most recent obtained degree.
Medical School

Academic Entry Requirements

MULTIPLE MINI INTERVIEW (MMI)

Eligible applicants will be invited to participate in a multiple mini interview (MMI)

Assesses personal qualities, such as kindness and compassion and verbal communication skills.
8 successive 10 minute interviews
Conducted via Zoom
Financial Investment

Fees
USD $67,456 (Indicative annual fee for 2023)

UQ is accredited by the United States Department of Education to administer various need-based loans to eligible US students and/or parents as part of the William D. Ford Direct Loan Program.

FAFSA application for government funding covers tuition and living expenses.
Ochsner Physician Scholars Program
USD $135,000 toward medical school expenses

In exchange, the recipient must commit to work in an Ochsner Health facility for five years after completing residency

Available for: Family Medicine
Internal Medicine
Pediatrics/Internal Medicine (Primary Care)
Psychiatry
2023 Cohort Demographics

Gender
54% female
46% male

Ave age
26 years

Ave MCAT
510

Key Degree
masters 30%
bachelors 70%
Thank you

ochsner.uq.edu.au

ochsner.med@enquire.uq.edu.au
504-703-6163
VI. Louisiana Afterschool Network
Andrew Ganucheau, Director
AGENDA

- Moonshot Flight Crew
- STEM Next’s CARE Framework
- STEM Literacy Resource Guide
LACAL is a statewide network whose mission for the past 12 years has and continues to be to support and encourage high-quality out of school time (OST) learning opportunities throughout Louisiana.

What we do:

• Promote and support a continuous quality improvement system through the establishment of the Louisiana Afterschool Program Quality Institute (LAPQI)

• Facilitate the collaboration of local, regional, statewide, and national partners improve the quality and access of OST programs

• Leverage best practices and research in partnership with Mott Foundation’s 50 State Afterschool Network to support continuous quality improvement across the country
The MGM initiative seeks to re-imagine who can engineer, who can build, who can make. It will inspire and prepare the next generation of innovators by engaging one million more girls and youth of color in STEM learning opportunities through afterschool and summer programs over the next 5 years.
Moonshot Flight Crew

Yaniret Abreu
Gretna
Moonshot Flight Crew

Yaniret Abreu
Gretna

Yaniret
Louisiana
Moonshot Flight Crew

Yaniret Abreu
Gretna

Yaniret

11th grade
Louisiana
Moonshot Flight Crew

Yaniret Abreu
Gretna

2024 Million Girls Moonshot Flight Crew
A STEM Next Initiative
Moonshot Flight Crew

Yaniret Abreu
Gretna

Meet Yaniret

“Get comfortable with being uncomfortable. Having this mindset helped me push through tasks where I didn’t feel confident and made me muster up the courage to reach out for help when needed.”
• The planning tool is designed to increase the capacity of out-of-school time (OST) STEM providers to engage families in and effective ways, building upon the promising practices.

• The key ideas, practices, and examples that inform this guide and our organizing framework known as “CARE” (Connect, Act, Reflect, and Empower).

• The framework can be used to support and improve the capacity of program staff, families, and youth, with focus on the areas most important for STEM teaching and learning, including knowledge and skills, values and beliefs, and networks of support.
10 Practices for an Engineering Mindset

- Use a systematic engineering design process
- Consider real-world problems
- Identify as engineers
- Work in teams
- Envision multiple solutions
- Explore materials
- Apply math and science
- Balance criteria and constraints
- Persist and learn from failure
- Evaluate and iterate
Use a systematic problem-solving process

While the products of engineering may vary, the problem-solving process used to create them is similar. In professional engineering settings, an engineering process may have dozens of phrases.
In 2022, SCILS at Louisiana Tech University was on hand to distribute free STEM kits during the 2022 Peach Festival. Developed by the SCILS Director to compliment the annual festival, the kits focused around the beloved children’s book “James and the Giant Peach”
Experiential Learning

The process of learning by doing
Hands On Learning

Afterschool STEM Programs

Literacy Support

STEM Literacy
25th Anniversary
Contact Us!

Andrew Ganucheau
Director of Out of School Time Quality
andrew@louisianafterschool.org
225-726-3700

THANK YOU!

louisianafterschool.org
VIII. Adjournment

Lunch and Tour to Follow