MONDAY, AUGUST 1, 2022

7:00 a.m.  Registration and Exhibits Open  
*Cox Business Center, Pepsi Exhibit Hall*

8:30 a.m. - Breakout Sessions for all Attendees (refer to Conference at a Glance)  
2:00 p.m.  *Cox Business Center or DoubleTree Hotel Downtown*

9:00 a.m. - STEM Business Meeting  
10:00 a.m.  *Cox Business Center, Conference Hall B*

11:00 a.m. - Lunch on your own in Exhibit Hall (concessions and food trucks will be available)  
2:00 p.m.  *Cox Business Center, Pepsi Exhibit Hall*

2:00 p.m. - General Session & Awards  
3:00 p.m.  *Cox Business Center, Grand Hall*

3:00 p.m. - Exhibitor Reception  
4:00 p.m.  *Cox Business Center, Pepsi Exhibit Hall*

TUESDAY, AUGUST 2, 2022

7:30 a.m. - Doors Open and Panera Breakfast available  
8:15 a.m.  *Tulsa Tech Peoria Campus*

8:30 a.m. - Breakout Session 1  
9:15 a.m.

**Session: Student Recruitment: How to Grow Your Program**  
**Presenter: Kirby Applegate and Jalinda Hogan**  
**Room: 101 (300 seats)**  
Description: We will share best practices developed over the years regarding how you recruit students to your engineering program and specific activities or practices that you can use in an effort to increase the number of female and other underrepresented students in your programs.

**Session: Getting Started with VEX IQ**  
**Presenter: Emily Harris**  
**Room: 102 (40 seats)**  
Description: How do I even get started with VEX IQ? Let’s look at what we need to do to get started with VEX IQ, setting up your classroom for VEX integration, what the process its and all things for new VEX IQ users.
Session: Merging Minds: Making the Most of the Senior Capstone Project (PLTW BMS and ENG)
Presenter: Debbie Short, Stephanie Hara and Cheryl Cottom
Room: 103 (40 seats)
Description: Great ideas come alive when people who have different backgrounds and ideas collaborate. Last year Meridian Technology Center’s STEM Academy instructors applied this philosophy to their students’ senior capstone projects and created teams that included both Engineering and Biomedical Science students. Learn what led them to make this shift, the outcomes they observed and the lessons that students and instructors learned from this experience.

Session: Learning is Fun using TI Technology and Coding (2 part series- Part A)
Presenter: Lisa Goddard
Room: A205 (30 seats)
Description: Using Python and the TI Innovator Rover, see how students can learn math and science concepts or just complete fun, engineering, or coding tasks. This is a “hands-on” session for teachers of every level. Some coding experience preferred, but not necessary. *Part B to immediately follow in the same room location.

Session: Diversity, Equity, and Inclusion Increasing enrollment in STEM Careers in Rural Oklahoma
Presenter: Amanda Cummings and Tonya Campbell
Room: A210 (20 seats)
Description:

Session: Preparing for Your 5 Year Program Evaluation
Presenter: Nacoe Thomas
Room: A215 (30 seats)
Description: Prepare for your evaluation by going over the evaluation document, where and how to upload to ctyou.org, what kind of documentation you will need, and answer questions you have. Only those that are being evaluated for the 22/23 school year should attend.

Session: Using code.org in the classroom
Presenter: Michael Pogue Edmond PS
Room: A216 (19 seats)
Description: High school computer science teacher from Edmond Public Schools will share how to use code.org in your classroom in both the middle school and high school settings.

Session: Navigating your first VRC Robotics Tournament
Presenter: Lolly Williams
Room: A220 (20 seats)
Description: Beginner 101 MS/HS registering team(s) https://www.robotevents.com/register/teams
New cost structure beginning this year. Navigating essential resources for a team’s first competition build with VRC (this is not for IQ teams).

Session: Go Go Gadget Google
Presenter: Nancy Rodriguez
Room: A222 (20 seats)
Description: Wowzers! Have we got some Google ideas for you! Join the adventure as we investigate Google gadgets. Our assignment: Identify high-tech ways to positively influence student learning.
Audience: All Educators with Google Accounts

Session: iCEV Online a Sustainable Curriculum Option
Presenter: Kassie Joe Winn-Huizar
Room: A223 (15 seats)
Description: Join us to learn how iCEV is a sustainable curriculum option that grows with your program’s needs. Our learning-on-demand platform includes standards-aligned Science, Technology, Engineering & Math curriculum, and acts as a host for industry certifications. The aligned curriculum will provide the educator with unlimited access to prebuilt, fully customizable courses, complete with media-rich lessons and supporting course work.

Session: NASA OKSG Speedfest Curriculum: Wing on a String/ Zeroing Out Lift
Presenter: Dorinda Risenhoover
Room: 301 (23 seats)
Description: What is Speedfest? How can our middle or high school start a team? Not only will participants be immersed in a hands-on activity which will illuminates two of the forces working on an airplane and the effects of weight on the plane’s ability to lift, answers to the previous questions as well as detailed information about Speedfest will be provided! This activity is easily adaptable for all grade and ability levels!

Session: Getting Creative with Canva (Intro Class)
Presenter: Amie Haar
Room: 401 (40 seats)
Description: As educators, we are always looking to enhance our curriculum, make our lessons and handouts more interesting, and find a way to connect deeper with our students as they learn important content. In this introductory class, attendees will learn some basic design skills, how to set up a project for success, and how to navigate through the vast world of Canva from the eyes of an educator.
***A laptop is not necessary for this class***

Session: All About Engineering at OU
Presenter: Dalston Brasington
Room: 401 Attached classroom (20 seats)
Description: Learn about the Gallogly College of Engineering at the University of Oklahoma, including the majors and programs offered, student support programs, pre-collegiate programs and more.

Session: Petro Pockets MS Science
Presenter: Jeffery Patterson
Room: 402 (16 seats)
Description: Have you ever wondered how oil is able to move through rocks? Porosity and permeability describe characteristics of rocks. The reservoir must have porosity, permeability and enough pressure to move the oil and natural gas. Students will determine the percent porosity of different types of rocks as well as the permeability or flow rate of a fluid through the different size of pores.

Session: Let It Flow-HS Core Energy Science
Presenter: Michael Lewchuk OERB Master Teacher
Room: 402C (20 seats)
Description: 9-12 Core Energy Science Curriculum investigating the factors that impact flow rate of fluids. This is an inquiry-based STEM activity utilizing the Engineering Design Process.

Session: StellarXplorers Competition
Presenter: Jeff James, Charles Koutahi and Ernest Sanchez
Room: 402E (23 seats)
Description: StellarXplorers, STLX, is a high school National Space Design Competition developed by the Air Force Association. The competition focuses on team problem-solving aspects associated with sending objects to space. This includes determining the orbit, payload, launch vehicle planning, and satellite coverage that optimizes the solution to a specific scenario. The best part is that you do not have to be a space expert to create a team, or for your team to have a successful season. The presentation answers questions such as how can STLX benefit my students, and my program. What is needed to start a StellarXplorers team? What support systems are available to me, and my students during the setup and competition?

Session: Competing with Drones at TSA
Presenter: Luke Bell
Room: 414 A (20 seats)
Description: Whether you’re new to drones or a competition veteran, learn more about the Oklahoma TSA Droneworks events and pick up some helpful competition tips to make your students a success.

Session: How To: with Laser Engraving
Presenter: Brandi Schwartz and Ronnie Tatum
Room: 414B (20 seats)
Description: We will go over the basics of the machine, how to use it, maintain it and then a tutorial on the software, how to design a project.

**Session: TechLabs for Middle School**  
**Presenter: Joe Carter**  
**Room: 414 C (24 seats)**  
Description: TechLabs learning in the middle school STEM Classroom

**Session: STEM Pathways and Career Readiness- Preparing Students to Solve Local and Global Challenges**  
**Presenter: Levi Patrick**  
**Room: 414 D (20 seats)**  
Description: Career readiness is more than career awareness. Increasingly students not only need to understand the careers open to them but they also need to see how the careers are good for them, their families, and their community. In this session, we’ll look at how CareerTech can be influential partners with sending schools as we create more opportunities for students to understand how TEM can prepare them to solve local and global challenges.

**Session: Looking for $100,000 Career**  
**Presenter: Ryan Gertzen**  
**Room: 425 (20 seats)**  
Description: Life comes down to a few critical decisions and one of them is what career one should pursue. The aviation industry has reached a boiling point and the number of open positions far exceeds the supply of talent. Come along and join me on a journey to Choose Aerospace Career.

**Session: KidWind Challenge- From Solar Circuits to Solar Fountains**  
**Presenter: Kathy Jackson**  
**Room: 443 (20 seats)**  
Description:
- 9:30 a.m. - Breakout Session 2  
- 10:15 a.m.

**Session: Capstone project ideas for Biomedical and Biotechnology students**  
**Presenter: Mona Easterling**  
**Room: 101 (300 seats)**  
Description: Interactive session covering ideas for the use of publicly accessible data and tools to generate assignments for student projects.

**Session: Getting Started with VEX IQ**  
**Presenter: Emily Harris**  
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Description: How do I even get started with VEX IQ? Let’s look at what we need to do to get started with VEX IQ, setting up your classroom for VEX integration, what the process its and all things for new VEX IQ users.

**Session: Which Gateway Unit is Your Fave and What are Your Secrets?**  
**Presenter: Jessica Graham and Patrick McKay**  
**Room: 103 (40 seats)**  
Description: Teacher led discussion around which Gateway units work best at various grade levels, discussion of a favorite unit, how to manage the projects, what are the challenges and best practices to be effective.

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**Session: Diversity, Equity, and Inclusion Increasing enrollment in STEM Careers in Rural Oklahoma**
Session: CareerTech’s Work Based Learning and the opportunities for your students  
Presenter: H.L. Baird  
Room: A215 (30 seats)  
Description: H.L. Will share the resources available to help teachers effectively engage in WBL.

Session: Using code.org in the classroom  
Presenter: Michael Pogue Edmond PS  
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Our assignment: Identify high-tech ways to positively influence student learning.

Session: iCEV Online a Sustainable Curriculum Option  
Presenter: TBD  
Room: A223 (15 seats)  
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Session: Telling the story of NASA’s Artemis Missions: How will we land on the moon?  
Presenter: Dorinda Risenhoover NASA OGSC-OSU  
Room: 301 (23 seats)  
Description: As NASA prepares to send the first women and the first person of color to the surface of the moon in 2025, it is crucial that we begin preparing our students for this historic moment now! The activity in this hands-on inquiry-based session is designed to answer the question- How will we land on the Moon? Links to NASA videos and resources will be provided. This activity is easily adaptable for all grade and ability levels.

Session: Getting Creative with Canva (Intermediate/Lab Class)  
Presenter: Amie Haar  
Room: 401 (40 seats)  
Description: As educators, we are always looking to enhance our curriculum, make our lessons and handouts more interesting, and find a way to connect deeper with our students as they learn important content. In this intermediate class, attendees will apply what they have learned in the introductory class, or sharpen the knowledge they already have of Canva and dip their toes in creating content be it a presentation, a handout, a worksheet, or even a project outline for their students to add to their own tool belt of skills.

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Presenter: Dalston Brasington  
Room: 401 Attached classroom (20 seats)
Description: Learn about the Gallogly College of Engineering at the University of Oklahoma, including the majors and programs offered, student support programs, pre-collegiate programs and more.

**Session: Project Based Learning in the Mathematics Classroom, an Overview**  
**Presenter:** Stephanie Murray and Telannia Norfar  
**Room:** 402 (16 seats)  
Description: This session will be an introduction to the methods outlined in the book “Project Based Learning in the Mathematics Classroom” by Telannia Norfar and Chris Francher. Suitable for Middle School and High School Mathematics educators.

**Session: Production Profit HS Core Energy Math**  
**Presenter:** Richelle Downey Master Teacher OERB  
**Room:** 402C (20 seats)  
Description: 9-12 Core Energy Math Curriculum activity to model costs/revenue/profits of drilling an oil and/or natural gas well in Oklahoma.

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Description: We will go over the basics of the machine, how to use it, maintain it and then a tutorial on the software, how to design a project.

**Session: TechLabs in the High School**  
**Presenter:** Joe Carter  
**Room:** 414 C (24 seats)  
Description: TechLabs in the High School STEM Classroom

**Session: STEM Identity- Building a Culture of Belonging in a STEM Classroom**  
**Presenter:** Levi Patrick  
**Room:** 414 D (20 seats)  
Description: Every child has innate curiosity and capacity for science, mathematics, and engineering. However, far too many black, Latino/a, and indigenous students, girls, and students living in poverty or rural settings experience a sense of disenfranchisement. In this session, we’ll learn about how teachers can play an important role in shifting mindsets and building a culture of belonging in their STEM classroom.

**Session: Creating a MakerSpace in your school: What you need to know**  
**Presenter:** Nathan Pritchett  
**Room:** 425 (20 seats)  
Description:
Session: KidWind Challenge- From Solar Circuits to Solar Fountains  
Presenter: Kathy Jackson  
Room: 443 (20 seats)  
Description:

10:30 a.m. - Breakout Session 3  
11:15 a.m.

Session: TSA Updates and Information for Advisors  
Presenter: Tami Redus  
Room: 101 (300 seats)  
Description:

Session: Combining Engineering and Computer Science with Competitive Robotics: A Dual Credit Program Inspiring Science and Technology  
Presenter: Matt Moore  
Room: 102 (40 seats)  
Description: A 4 year High School program combining engineering and computer science courses and incorporating VEX and FIRST robotics.

Session: What We’ve Learned about Hosting an EDD Showcase Event)  
Presenter: Lamar Schmidt and Bradley Chisolm  
Room: 103(40 seats)  
Description: The EDD Showcase Event has evolved over the years within our program at Francis Tuttle. We’ll talk about how we go about hosting a successful event as well as opening a conversation about a statewide opportunity to provide Oklahoma students with the opportunity to demonstrate their engineering successes.

Session: Learn To Fly! You Can Help Build a District-Wide Aviation Program  
Presenter: Paula Kedy  
Room: A205 (30 seats)  
Description: This session will help STEM teachers think beyond the walls of their secondary classrooms by offering ways to encourage elementary and mid-level teachers in their districts to develop aerospace and aviation activities that will prepare students to enter high school aviation coursework.

Session: PBIS in a STEM classroom (Positive Behavior Intervention System)  
Presenter: Renae Lawler and Rosie Castle  
Room: A210 (20 seats)  
Description: We want to demonstrate a Positive Behavior Intervention System (PBIS) integrated through gamification (Classcraft) and other educational platforms used in our Middle School STEM classrooms. We will share how we have connected our 8th grade Science Standards using an online platform that allows various learning paths, digital engagement along with how we were able to successfully fund this idea. * Intermediate – Middle School

Session: Using Technology in Biotech and Biomed to Elevate Your Program  
Presenter: Aaron Kallas  
Room: A215 (20 seats)  
Description: Are you ready to push the boundaries of your science curriculum and prepare your students for a job sector that is bursting with employment opportunities? Come learn about the creative solutions Bio-Rad has for helping establish a biotech presence within your school or district. Topics will include: program startup, curriculum and support, equipment and supplies, and teacher professional development. Don’t miss out on the chance to elevate your school or district to the next level of science education.

Session: Am I linked up on my LinkedIn? Best practices for online presences and portfolios  
Presenter: Jessica Stewart  
Room: A216 (19 seats)
Description: Do companies even use LinkedIn? How important is an online portfolio? In this session, Jessica will demystify building a digital (personal) brand, help determine whether LinkedIn is a useful tool for students and provide best practices surrounding personal branding and key components of a successful LinkedIn profile.

**Session: Grant Writing 101**  
**Presenter:** Cindy Dyes  
**Room:** A220 (20 seats)  
Description: Beginning grant writers, this session will set you on the right track to write an Oklahoma Lottery Grant proposal that may help fund your future project. Participants will learn helpful tips and utilize templates to prepare a successful OK Lottery Grant proposal.

**Session: Go Go Gadget Google**  
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Description: Wowzers! Have we got some Google ideas for you! Join the adventure as we investigate Google gadgets.  
**Our assignment:** Identify high-tech ways to positively influence student learning.

**Session: Coding without a Computer**  
**Presenter:** Tiffani Veal  
**Room:** A223 (15 seats)  
Description: Beginner, middle and high school, hands- on look at coding with the Texas Instruments N Spire CXI and CXII. Introduction and Practice with 10 minutes of code. Calculators, Innovator Hubs, and Rovers will be provided for session use ONLY. Participants may bring their own Calculator if they desire. Brief discussion and walk through of accessing resources.

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**Room:** 401 Attached classroom (20 seats)  
Description: Learn about the Gallogly College of Engineering at the University of Oklahoma, including the majors and programs offered, student support programs, pre-collegiate programs and more.

**Session: Function Selfie**  
**Presenter:** Nancy Trent  
**Room:** 402 (16 seats)  
Description: Participants of this session will actively engage in an online activity to be used in classes from Algebra I through Precalculus. It allows students to explore function and non-function transformation while creating a “selfie” graph. Precalculus can utilize the trigonometric functions while Algebra I students will be restricted to linear. All
students will explore domain and range restrictions. **Bring a device and a “selfie”.

Session: Find the Lineman  
Presenter: Tina Valentien Master Teacher OERB  
Room: 402C (20 seats)  
Description: Middle level math – Tangram Activity Participants will use tangrams to model a section of a township, and will calculate the area of the landowner using fractions.

Session: Looking for $100,000 Career  
Presenter: Ryan Gertzen  
Room: 402E (23 seats)  
Description: Life comes down to a few critical decisions and one of them is what career one should pursue. The aviation industry has reached a boiling point and the number of open positions far exceeds the supply of talent. Come along and join me on a journey to Choose Aerospace Career.

Session: Get Flying with Drones  
Presenter: Luke Bell  
Room: 414 A (20 seats)  
Description: Learn what you need to get started with drones in the classroom. From buying the right drone to classroom safety to coding for autonomous flight, you’ll discover how to get your new drone program off the ground.

Session: 3D Printing in Different Grade Levels  
Presenter: Matt Turnbull  
Room: 414B (20 seats)  
Description: Understanding the use of 3D printing within all levels of development. Walking through the basics and different examples of projects at each grade level.

Session: 3D Modeling with Autodesk  
Presenter: Shane McGrew  
Room: 414 C (20 seats)  
Description: Interested in 3D modeling? Come learn about three Autodesk 3D modeling programs; Tinkercad, Fusion 360, & Inventor.

Session: Drones / Flight Simulators / CATIA 3D Modeling: Preparing Students for the Future in Aviation  
Presenter: Scott Bevan  
Room: 414 D (20 seats)  
Description: The use of DJI drones in Land Analysis, Videography, Photography in various classroom activities and how we include community involvement in the process. How to inspire interest in Aviation using Flight Simulations and partnering with Wichita State University in 3D modeling technology (CATIA v5.0)

Session: Creating a MakerSpace in your school: What you need to know  
Presenter: Nathan Pritchett  
Room: 425 (20 seats)  
Description: You’ve you’re the buzz term of MakerSpace, come find out what that means, the equipment you need, tips and tricks and being the buzz of your school district!

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Presenter: Kathy Jackson  
Room: 443 (20 seats)  
Description:  

11:30 a.m. - Breakout Session 4  
12:15 p.m.

Session: Guiding students through the process of presenting
**Presenter:** Mona Easterling  
**Room:** 101 (300 seats)  
**Description:** Discussion of post-pandemic presentation ideas that allow students to share their work with peers and learn the vital role of networking.

**Session: Combining Engineering and Computer Science with Competitive Robotics: A Dual Credit Program Inspiring Science and Technology**  
**Presenter:** Matt Moore  
**Room:** 102 (40 seats)  
**Description:** A 4 year High School program combining engineering and computer science courses and incorporating VEX and FIRST robotics.

**Session:** PLTW Digital Electronics: Controlling Real World Systems with Pi-top  
**Presenter:** Mark Thomas and Austin Shipman  
**Room:** 103 (40 seats)  
**Description:**

**Session:** Learn To Fly! You Can Help Build a District-Wide Aviation Program  
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Session: “Spud”nauts in Space: Bringing Space Suit Design into the Classroom  
Presenter: Dorinda Risenhoover  
Room: 301 (23 seats)  
Description: Do you have what it takes to design a space suit? Find out in this hands-on inquiry-based STEM session as you become a space suit engineer and use the Engineering Design Process to design a space suit for your “Spud”naut! Once designed, your suit will experience some “field testing” to see if you succeeded! These hands-on activities are scalable for all grade levels and abilities.

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**Session: Drones / Flight Simulators / CATIA 3D Modeling: Preparing Students for the Future in Aviation**  
*Presenter: Scott Bevan*  
*Room: 414 D (20 seats)*  
Description: The use of DJI drones in Land Analysis, Videography, Photography in various classroom activities and how we include community involvement in the process. How to inspire interest in Aviation using Flight Simulations and partnering with Wichita State University in 3D modeling technology (CATIA v5.0)

**Session: KidWind Challenge- Solar Circuits to Solar Fountains**  
*Presenter: Kathy Jackson*  
*Room: 443 (20 seats)*  
Description:

12:20 p.m. - Tech Center Instructor Updates with Tonja Norwood
12:40 p.m. - Oklahoma Heritage Auditorium
12:15 p.m. - Lunch on site for Comprehensive teachers Catered by Andolini’s Cafeteria
1:15 p.m. - Comprehensive Teacher update with Tonja Norwood
1:40 p.m. - Oklahoma Heritage Auditorium
1:45 p.m. - Session 5 Networking
3:15 p.m. - Rooms:
101 Middle School TE
102 HS TE
103 HS TE
A205 PLTW Gateway
A210 PLTW Gateway
A215 Robotics
A216 Computer Science
A220 Computer Science
A222 Biomed/Biotech
A223 Biomed/Biotech
401 (AC) Aerospace and Aviation
402 PLTW Pre-Engineering
402 C PLTW Pre-Engineering
402 E- PLTW Pre-Engineering
Take the time to work with your fellow CareerTech teachers in the same region or program area as you. Share ideas, best practice, what works, how you recruit, favorite projects, etc.

3:15 p.m. - Check out with the ODCTE STEM Staff turn in your Google verification forms. QR Code
4:00 p.m. Codes to access the Google Verification form will be released at this time.

Registration Area

4:00 p.m. Conference Adjourns