Follow and participate in the STEM conference activities on Twitter using the hash tag #stem and the OkACTE conference activities using #okacte!

7:30 – 8:15 a.m.  Check-in, Moore Norman Technology Center, Franklin Campus

8:30 – 9:20 a.m.  Breakout Sessions 1  STEM D Building

Session:  Industry Partnership
Presenter:  Xan Black, Tulsa Regional STEM Alliance
Presenter Bio:  Xan Black is the Executive Director of the Tulsa Regional STEM Alliance (TRSA). Xan’s drive, passions, and leadership of the Alliance support all aspects of STEM education. She aligns the experience and wisdom of community partners with the need of educators and schools. She is responsible for project management, strategic planning, program implementation and more. Xan graduated with a Bachelor of Science degree in Petroleum Engineering from Texas Tech University in 1981. She worked for eight years in the energy industry in Oklahoma. In 2007, Xan earned a Master of Education degree with an emphasis in Middle and Secondary School from Southwestern Assemblies of God University. She taught secondary math and science for 11 years at Mingo Valley Christian School. Xan and her husband, Jeff, have five adult children and have lived in Tulsa since 1990.

Room:  STEM Building, D421 (20 seats)
Description:  Recommended for all STEM Teachers

Session:  Using OkCareerGuide.org
Presenter:  Micah Willeford, Career Guidance Counselor, Moore Public Schools
Room:  STEM Building, D423 (20 seats)
Description:  This session will cover how to use OkCareerGuide.org to help students with their Individual Career Academic Plan (ICAP). Specific topics will include access, exploring occupations, create plans of study, interest survey, résumés, storing documents, and how to request administrative access to the system.
Area:  Recommended for all STEM Career Clusters

Session:  FIRST Robotics
Presenter:  Roger Farris, Director of Instruction / Mentor FRC Team # 2341, Gordon Cooper Technology Center
Presenter Bio:  Worked in electronics industry. Electronics Instructor for 4 years. Industrial Coordinator for 13 years. Director of Instruction for 7 years. First Robotics Mentor Coach for 12 years.
Room:  STEM Building, D428 (18 seats)
Description:  Benefits of after school robotics programs. How to get started. High School Credit for work done.
Area:  Engineering

Session:  Rubik’s Cube
Presenter:  Rhonda Hibbard, Math Specialist, East Central University/ The Institute for Math & Science Education
Room:  STEM Building, D430 (18 seats)
Description:  The Rubik’s Cube is a hands-on learning tool that reinforces mathematical concepts such as percentages, estimation, fractions, geometric properties while creating art! Creating a Rubik’s cube mosaic enables students to make that connection between math and other disciplines while promoting perseverance and teamwork!
Area: MS STEM

Session: Teaching STEM self-pace models
Presenter:
Room: STEM Building, D434 (18 seats)
Description:

Area: Coding and Engineering with Ground and Aerial Robots
Presenter: Ashley Borgerding
Presenter Bio: Ashley is a graduate of The University of Oklahoma with a Bachelor’s in Computer Engineering and a minor in Computer Science. She led the Sooner Rover Team at OU and loves all things robotics. Her passions lie in STEM and education. She enjoys teaching, mentoring, and watching students discover their potentials!
Room: STEM Building, D432 (18 seats)
Description: Introductory workshop to provide information about our robotics educational programs

Area: FAA
Presenter:
Room: STEM Building, D439 (18 seats)
Description:

Area: Tinker
Presenter:
Room: STEM Building, D444 (30 seats)
Description:

Area: Kid Wind-more than just STEM
Presenter: Kathy Jackson; KidWind Lead Instructor – Oklahoma; Trish Williams, Community Relations – Enel Green Power
Presenter Bio: Founder / Director of The SpiritWind Kidz Ranch, Inc.; Oklahoma educators for KidWind Project.
Room: STEM Building, D476 (24 seats)
Description: We will display and discuss the various directions of STEM /STEAM in Renewable Energy. There will be a hands-on activity included. (all levels)

9:35 – 10:25 a.m. Breakout Sessions 2

Area: Industry Partnership
Presenter: Xan Black, Tulsa Regional STEM Alliance
Presenter Bio: Xan Black is the Executive Director of the Tulsa Regional STEM Alliance (TRSA). Xan’s drive, passions, and leadership of the Alliance support all aspects of STEM education. She aligns the experience and wisdom of community partners with the need of educators and schools. She is responsible for project management, strategic planning, program implementation and more. Xan graduated with a Bachelor of Science degree in Petroleum Engineering from Texas Tech University in 1981. She worked for eight years in the energy industry in Oklahoma. In 2007, Xan earned a Master of Education degree with an emphasis in Middle and Secondary School from Southwestern Assemblies
of God University. She taught secondary math and science for 11 years at Mingo Valley Christian School. Xan and her husband, Jeff, have five adult children and have lived in Tulsa since 1990.

**Room:** STEM Building, D421 (20 seats)
**Description:** Recommended for all STEM Teachers

**Session:** Using OkCareerGuide.org
**Presenter:** Micah Willeford, Career Guidance Counselor, Moore Public Schools
**Room:** STEM Building, D423 (20 seats)
**Description:** This session will cover how to use OkCareerGuide.org to help students with their Individual Career Academic Plan (ICAP). Specific topics will include access, exploring occupations, create plans of study, interest survey, résumés, storing documents, and how to request administrative access to the system.
**Cluster Area:** Recommended for all STEM Teachers

**Session:** FIRST Robotics
**Presenter:** Roger Farris, Director of Instruction / Mentor FRC Team # 2341, Gordon Cooper Technology Center
**Presenter Bio:** Worked in electronics industry. Electronics Instructor for 4 years. Industrial Coordinator for 13 years. Director of Instruction for 7 years. First Robotics Mentor Coach for 12 years.
**Room:** STEM Building, D428 (18 seats)
**Description:** Benefits of after school robotics programs. How to get started. High School Credit for work done.
**Area:**

**Session:** Now what do I do?
**Presenter:** Rhonda Hibbard, Math Specialist, East Central University / The Institute for Math & Science Education
**Presenter Bio:** High School/Middle School math instructor for 16 years. Presently the Math Specialist for The Institute for Math & Science Education at East Central University. Our mission is to assist and provide support to classroom teachers and pre-service teachers who desire to incorporate STEM activities into their curriculum
**Room:** STEM Building, D430 (18 seats)
**Description:** Providing Middle School students with opportunities to reason, play, and build logically derived answers that they can justify!
**Area:**

**Session:** Teaching STEM with self-pace models
**Presenter:**
**Room:** STEM Building, D432 (18 seats)
**Description:**
**Area:**

**Session:** Coding and Engineering with Ground and Aerial Robots
**Presenter:** Ashley Borgerding STEM+C Implementation Specialist, KISS Institute for Practical Robotics
**Presenter Bio:** Ashley is a graduate of The University of Oklahoma with a Bachelor’s in Computer Engineering and a minor in Computer Science. She led the Sooner Rover Team at OU and loves all things robotics. Her passions lie in STEM and education. She enjoys teaching, mentoring, and watching students discover their potentials!
**Room:** STEM Building, D432 (18 seats)
**Description:** Introductory workshop to provide information about our robotics educational programs
**Area:**
Session: FAA
Presenter: 
Presenter Bio: 
Room: STEM Building, D439 (25 seats)
Description:
Area:

Session: Tinker
Presenter: 
Room: STEM Building, D444 (30 seats)
Description:
Area:

Session: Kid Wind-more than just STEM
Presenter: Kathy Jackson; KidWind Lead Instructor – Oklahoma; Trish Williams, Community Relations – Enel Green Power
Presenter Bio: Founder / Director of The SpiritWind Kidz Ranch, Inc.; Oklahoma educators for KidWind Project.
Room: STEM Building, D476 (24 seats)
Description: We will display and discuss the various directions of STEM /STEAM in Renewable Energy. There will be a hands-on activity included. (all levels)
Area:

10:40 – 11:30 a.m. Breakout Sessions 3

Session: Tulsa STEM Regional Alliance
Presenter: Xan Black, Tulsa Regional STEM Alliance, Executive Director
Presenter Bio: Xan Black is the Executive Director of the Tulsa Regional STEM Alliance (TRSA). Xan’s drive, passions, and leadership of the Alliance support all aspects of STEM education. She aligns the experience and wisdom of community partners with the need of educators and schools. She is responsible for project management, strategic planning, program implementation and more. Xan graduated with a Bachelor of Science degree in Petroleum Engineering from Texas Tech University in 1981. She worked for eight years in the energy industry in Oklahoma. In 2007, Xan earned a Master of Education degree with an emphasis in Middle and Secondary School from Southwestern Assemblies of God University. She taught secondary math and science for 11 years at Mingo Valley Christian School. Xan and her husband, Jeff, have five adult children and have lived in Tulsa since 1990.
Room: STEM Building, D421 (20 seats)
Description: Come and learn how to get your students involved in Tulsa STEM alliance. Learn about our goals, professional development, events, and mentorship programs.
Area:

Session: Using OkCareerGuide.org
Presenter: AJ Crowell, Career and Guidance Program Specialist, ODCTE
Room: STEM Building, D423 (20 seats)
Description: This session will cover how to use OkCareerGuide.org to help students with their Individual Career Academic Plan (ICAP). Specific topics will include access, exploring occupations, create plans of study, interest survey, résumés, storing documents, and how to request administrative access to the system.
Area: Recommended for all STEM Career Clusters

**Session:** NASA Hunch  
**Presenter:**  
**Room:** STEM Building, D428 (18 seats)  
**Description:**  

**Session:** Rubik’s Cube  
**Presenter:** Rhonda Hibbard, Math Specialist, East Central University / The Institute for Math & Science Education  
**Presenter Bio:** High School/Middle School math instructor for 16 years. Presently the Math Specialist for The Institute for Math & Science Education at East Central University. Our mission is to assist and provide support to classroom teachers and pre-service teachers who desire to incorporate STEM activities into their curriculum  
**Room:** STEM Building, D430 (18 seats)  
**Description:** The Rubik’s Cube is a hands-on learning tool that reinforces mathematical concepts such as percentages, estimation, fractions, geometric properties while creating art! Creating a Rubik’s cube mosaic enables students to make that connection between math and other disciplines while promoting perseverance and teamwork!  

**Session:** Teaching STEM with self-pace models  
**Presenter:**  
**Room:** STEM Building, D432 (18 seats)  
**Description:**  

**Session:** Coding and Engineering with Ground and Aerial Robots  
**Presenter:** Ashley Borgerding, STEM+C Implementation Specialist, KISS Institute for Practical Robotics  
**Presenter Bio:** Ashley is a graduate of The University of Oklahoma with a Bachelor’s in Computer Engineering and a minor in Computer Science. She led the Sooner Rover Team at OU and loves all things robotics. Her passions lie in STEM and education. She enjoys teaching, mentoring, and watching students discover their potentials!  
**Room:** STEM Building, D432 (18 seats)  
**Description:** Introductory workshop to provide information about our robotics educational programs  

**Session:** FAA  
**Presenter:**  
**Room:** STEM Building, D439 (25 seats)  
**Description:**  

**Session:** Tinker  
**Presenter:**  
**Room:** STEM Building, D444 (30 seats)  
**Description:**  

**Session:** Kid Wind-more than just STEM
Presenter: Kathy Jackson; KidWind Lead Instructor – Oklahoma; Trish Williams, Community Relations – Enel Green Power
Presenter Bio: Founder / Director of The SpiritWind Kidz Ranch, Inc.; Oklahoma educators for KidWind Project.
Room: STEM Building, D476 (24 seats)
Description: We will display and discuss the various directions of STEM /STEAM in Renewable Energy. There will be a hands-on activity included. (all levels)

11:30 a.m. – 1:00 p.m.  Lunch on Your Own

1:00 – 1:50 p.m.  Breakout Sessions 4

Session: Tulsa STEM Regional Alliance
Presenter: Xan Black, Tulsa Regional STEM Alliance, Executive Director
Presenter Bio: Xan Black is the Executive Director of the Tulsa Regional STEM Alliance (TRSA). Xan’s drive, passions, and leadership of the Alliance support all aspects of STEM education. She aligns the experience and wisdom of community partners with the need of educators and schools. She is responsible for project management, strategic planning, program implementation and more. Xan graduated with a Bachelor of Science degree in Petroleum Engineering from Texas Tech University in 1981. She worked for eight years in the energy industry in Oklahoma. In 2007, Xan earned a Master of Education degree with an emphasis in Middle and Secondary School from Southwestern Assemblies of God University. She taught secondary math and science for 11 years at Mingo Valley Christian School. Xan and her husband, Jeff, have five adult children and have lived in Tulsa since 1990.
Room: STEM Building, D421 (20 seats)
Description: Come and learn how to get your students involved in Tulsa STEM alliance. Learn about our goals, professional development, events, and mentorship programs.

Session: Using OkCareerGuide.org
Presenter: AJ Crowell, Career and Guidance Program Specialist, ODCTE
Room: STEM Building, D423 (20 seats)
Description: This session will cover how to use OkCareerGuide.org to help students with their Individual Career Academic Plan (ICAP). Specific topics will include access, exploring occupations, create plans of study, interest survey, résumés, storing documents, and how to request administrative access to the system.
Area: Recommended for all STEM Career Clusters

Session: NASA Hunch
Room: STEM Building, D428 (18 seats)
Description: Now what do I do?
Presenter: **Rhonda Hibbard**, Math Specialist, East Central University / The Institute for Math & Science Education

Presenter Bio: High School/Middle School math instructor for 16 years. Presently the Math Specialist for The Institute for Math & Science Education at East Central University. Our mission is to assist and provide support to classroom teachers and pre-service teachers who desire to incorporate STEM activities into their curriculum.

**Room:** STEM Building, D430 (18 seats)

**Description:** Providing Middle School students with opportunities to reason, play, and build logically derived answers that they can justify!

**Area:**

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**Session:** StellarXplorers

**Presenter:** **Charles Koutahi** Engineering Academy Instructor, Francis Tuttle Technology Center

**Room:** STEM Building, D432 (18 seats)

**Description:** What is StellarXplorers and how to incorporate StellarXplorers into your PLTW’s Aerospace Engineering class.

*This presentation will cover:*

- The benefits of including StellarXplorers into your PLTW – AE curriculum.
- How to make rearrange the AE lessons to make a smoother transition
- The resources available through www.stellarxplorers.org and https://ctyou.org/ along with the registration process for StellarXplorers, fees, textbook, quizzes, and the AGI Systems Tool Kit (STK) software.

**Pre-session Instructions:** Recommend - bring laptop, download STK 11, visit [www.stellarxplorers.org](http://www.stellarxplorers.org)

**Area:**

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**Session:** Flight & Space Museum

**Presenter:**

**Room:** STEM Building, D434 (18 seats)

**Description:**

**Area:**

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**Session:** Computing Aspirations

**Presenter:**

**Room:** STEM Building, D439 (seats)

**Description:**

**Area:**

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**Session:** Drones

**Presenter:** Brad

**Room:** STEM Building, D444 (30 seats)

**Description:**

**Area:**

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**Session:** Kid Wind-more than just STEM

**Presenter:** Kathy Jackson; KidWind Lead Instructor – Oklahoma; Trish Williams, Community Relations – Enel Green Power

Presenter Bio: Founder / Director of The SpiritWind Kidz Ranch, Inc.; Oklahoma educators for KidWind Project.

**Room:** STEM Building, D476 (24 seats)
2:05 – 2:55 p.m. Breakout Sessions 5

**Session:** Industry Partnership
**Presenter:** Xan Black, Tulsa Regional STEM Alliance
**Presenter Bio:** Xan Black is the Executive Director of the Tulsa Regional STEM Alliance (TRSA). Xan’s drive, passions, and leadership of the Alliance support all aspects of STEM education. She aligns the experience and wisdom of community partners with the need of educators and schools. She is responsible for project management, strategic planning, program implementation and more. Xan graduated with a Bachelor of Science degree in Petroleum Engineering from Texas Tech University in 1981. She worked for eight years in the energy industry in Oklahoma. In 2007, Xan earned a Master of Education degree with an emphasis in Middle and Secondary School from Southwestern Assemblies of God University. She taught secondary math and science for 11 years at Mingo Valley Christian School. Xan and her husband, Jeff, have five adult children and have lived in Tulsa since 1990.

**Room:** STEM Building, D421 (20 seats)
**Description:** Recommended for all STEM Teachers

**Session:** Using OkCareerGuide.org **MAY NEED TO DELETE IF OTHER PRESENTER FOUND**
**Presenter:** Micah Willeford, Career Guidance Counselor, Moore Public Schools
**Room:** STEM Building, D423 (20 seats)
**Description:** This session will cover how to use OkCareerGuide.org to help students with their Individual Career Academic Plan (ICAP). Specific topics will include access, exploring occupations, create plans of study, interest survey, résumés, storing documents, and how to request administrative access to the system.

**Area:** Recommended for all STEM Career Clusters

**Session:** NASA Hunch
**Presenter:**
**Room:** STEM Building, D428 (18 seats)
**Description:**

**Area:**

**Session:** Rubik’s Cube
**Presenter:** Rhonda Hibbard, Math Specialist, East Central University/ The Institute for Math & Science Education
**Room:** STEM Building, D430 (18 seats)
**Description:** The Rubik’s Cube is a hands-on learning tool that reinforces mathematical concepts such as percentages, estimation, fractions, geometric properties while creating art! Creating a Rubik’s cube mosaic enables students to make that connection between math and other disciplines while promoting perseverance and teamwork!

**Area:**

**Session:** StellarXplorer
**Presenter:** Charles Koutahi Engineering Academy Instructor, Francis Tuttle Technology Center
**Room:** STEM Building, D432 (18 seats)
Description: What is StellarXplorers and how to incorporate StellarXplorers into your PLTW’s Aerospace Engineering class.
This presentation will cover:
The benefits of including StellarXplorers into your PLTW – AE curriculum.
How to make rearrange the AE lessons to make a smoother transition
The resources available through www.stellarxplorers.org and https://ctyou.org/ along with the registration process for StellarXplorers, fees, textbook, quizzes, and the AGI Systems Tool Kit (STK) software.

Pre-session Instructions: Recommend - bring laptop, download STK 11, visit www.stellarxplorers.org

Session: Flight and Space Museum
Presenter: STEM Building, D434 (18 seats)
Description: 

Area:

Session: Computing Aspirations
Presenter: STEM Building, D439 (25seats)
Presenter Bio: 
Room: 
Description: 

Area:

Session: Drones
Presenter: Brad
Room: STEM Building, D444 (30seats)
Description: 

Area:

Session: Kid Wind-more than just STEM
Presenter: Kathy Jackson; KidWind Lead Instructor – Oklahoma; Trish Williams, Community Relations – Enel Green Power
Presenter Bio: Founder / Director of The SpiritWind Kidz Ranch, Inc.; Oklahoma educators for KidWind Project.
Room: STEM Building, D476 (24seats)
Description: We will display and discuss the various directions of STEM /STEAM in Renewable Energy. There will be a hands-on activity included. (all levels)

Area:

3:10-4:00 p.m. Wrap Up-Checkout