

# OKLAHOMA ENGINEERING CONFERENCE

## AGENDA

JUNE 15-16, 2023

TULSA TECHNOLOGY CENTER - OWASSO CAMPUS

10800 N. 137<sup>TH</sup> AVE.

OWASSO, OK 74055

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### THURSDAY, JUNE 15

**7:30-8:00 a.m.**      **Registration/Continental Breakfast**      **Foyer/Post Oak**  
**Visit with Exhibitors**

#### GENERAL SESSION

**8:00-8:25 a.m.**  
**1. Welcome (.5)**      **Sycamore**  
*Doug Klassen, P.E.; OSPE VP of Education*

**OEF Update**      **Sycamore**  
*Jennifer McCollum, APR; OEF Executive Director*

**8:30-10:00 a.m.**  
**2. PELS State Board of Licensure Rules and Legislative Update and**      **Sycamore**  
**Board of Licensure Enforcement Update (1.5)**  
*Kathy Hart, Executive Director*  
*OK Board of Licensure for Professional Engineers and Land Surveyors*

**10:00-10:15 a.m.**  
**NETWORKING BREAK**      **Foyer/Post Oak**

**10:15-10:55 a.m.**  
**3. STEM Education is Workforce Development: How Industry and**      **Sycamore**  
**Profession can Cultivate a Thriving Workforce Through K-12 STEM**  
**Experience and Teacher Externships (.75)**  
*Dr. Emily Mortimer, V.P. Ecosystems Tulsa Regional STEM Alliance*  
*Levi Patrick, Executive Director Tulsa Regional STEM Alliance*

**11:00 a.m. - 12:00 p.m.**  
**4. STEAM Engine (1)**      **Sycamore**  
*Morgan Jones, AIA, MBA; Founder/Executive Director; The STEAM Engine*

**12:00-1:00 p.m.**  
**Luncheon**  
*Britt Smith, P.E., F.NSPE; President, NSPE*      **Post Oak**  
*NSPE Update*

#### CONCURRENT SESSIONS

**1:00-1:55 p.m.**  
**5. The Airport, Yesterday, Today and Beyond (1)**      **Maple**  
*Frank Relja, P.E.; Director, Engineering and Planning*  
*Tulsa Airport Improvements Trust*

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- 6. Geopier Ground Improvement Solutions (1) Sycamore**  
*Vaughn Rupnow, P.E., Design Engineer*  
*Ground Improvement Engineering*
- 2:00-2:55 p.m.**
- 7. Driving Oklahoma Forward: EVs Hydrogen Fuel Cells and More (1) Maple**  
*Michelle Merchant, INCOG*  
*Oklahoma Department of Transportation*
- 8. Laser Scanning Methods and Modeling (1) Sycamore**  
*Bret McElroy, Account Manager*  
*Creaform*
- 2:55-3:15 p.m.**  
**NETWORKING BREAK** Foyer/Post Oak  
**Visit with Exhibitors**
- 3:15-4:10 p.m.**
- 9. Tornado Aftermath Investigation (1) Maple**  
*Chad Williams, P.E., D.F.E.; President and Principal Engineer,*  
*Valor Forensic Engineering Services, LLC*
- 10. Product Engineering for Mutually Exclusive Requirements (1) Sycamore**  
*Mark Lobo, P.E. Managing Partner*  
*VSI Valve Systems*
- 4:15-5:15 p.m.**
- 11. The Multi-Modal Nevi Experience (1) Maple**  
*Jared Schwennesen, P.E., Manager*  
*Multi-Modal Division, Oklahoma Department of Transportation*
- 12. Fast Cast Bridge Construction (1) Sycamore**  
*Andy Vanaman, President*  
*Premiere Steel*

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### FRIDAY, JUNE 16

**7:00-7:45 a.m.**                      **Registration/Continental Breakfast**                      **Foyer/Post Oak**  
**Visit with Exhibitors**

### CONCURRENT SESSIONS

**7:45-8:40 a.m.**

**13. OSHA Activity and Worker Fatalities in Oklahoma (1)**                      **Maple**  
*Jorge Delucca, Compliance Assistance Specialist*  
*OSHA*

**14. Zink Dam Project**                      **(1)**                      **Sycamore**  
*Lars Ostervold, Jr. P.E., Senior Project Manager*  
*Jacobs Engineering*  
*Brooke Caviness, P.E., Transportation Capital Planning Engineer and Stormwater Design Group*  
*City of Tulsa*

**8:45-9:40**

**15. Tulsa Projects Updates**                      **(1)**                      **Maple**  
*Henry Som de Cerff, P.E.; Design Engineering Manager*  
*City of Tulsa*

**16. Lean Construction Institute**                      **(1)**                      **Sycamore**  
*Heather Ormonde, Co-Founder and Chair*  
*Oklahoma Lean Construction Community of Practice*

**9:40-9:55 a.m.**                      **NETWORKING BREAK**                      **Foyer/Post Oak**

**9:55-10:50 a.m.**

**17. Oklahoma Department of Transportation Update**                      **(1)**                      **Maple**  
*Brian Taylor, P.E., Chief Engineer*  
*Oklahoma Department of Transportation*

**18. Fatigue and Damage Tolerance of Aircraft**                      **(1)**                      **Sycamore**  
*Ric Leist, P.E.*  
*R. Leist Engineering*

**10:55 – 11:50 a.m.**

**19. Oklahoma Turnpike Authority Update**                      **(1)**                      **Maple**  
*Joe Echelle, P.E., Assistant Executive Director for Maintenance,*  
*Engineering and Construction*

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*Oklahoma Turnpike Authority*

**20. Overview of Selected Structural Failures** (1) **Sycamore**  
*Ric Leist, P.E.*  
*R. Leist Engineering*

**11:55-12:40 p.m.**  
**Luncheon** **Post Oak**  
*OSPE Chapter Officers*  
*OSPE Chapter Update*

### GENERAL SESSION

**12:40 – 1:35 p.m.**  
**21. Oklahoma Transportation Update** (1) **Sycamore**  
*Tim Gatz, Sec. of Transportation*  
*State of Oklahoma*

**1:40-2:35 p.m.**  
**22. Teaming 2.0: Better Teams, Better Design** (1) **Sycamore**  
*Kristi Pempin, CPSM; VP of Marketing, Client Development and Public Involvement*  
*Whitehawk Engineering*

**2:35-2:45 p.m.** **NETWORKING BREAK** **Foyer/Post Oak**  
**Visit with Exhibitors**

**2:45-4:05 p.m.** (1.5) **Sycamore**  
**23. Voyager 1&2: Humanity's Most Distant Explorers**  
*Todd Barber, Propulsion Engineer, NASA*

**Adjourn**