WOMEN IN SCIENCE MUSEUM OKLAHOMA Event Date: Tuesday, October 22, 2019

teachers: see inside for your individual conference schedule and other important information

- Central Technology Center
- Francis Tuttle Tech Center
- Francis Tuttle Tech Center Rockwell
- Gordon Cooper Technology Center
- Meridian Technology Center
- Oklahoma School of Science & Math
- Western Heights 9th Grade Center
- Western Heights High School

You MUST ATTEND the session & lunch times listed in YELLOW. All other activities are at your preference.			
y C	your scheduled sessions		
9:00 AM	INTERACTIVE PANEL SESSION *Prize drawing! (Ticket in badge)	AUDITORIUM 1st Floor	
10:00 AM	ENGINEERING CHALLENGE *Prize drawing! (Ticket in badge)	GOLDMAN RM 2nd Floor	
11:30 AM	LUNCH (30 Min.)	LUNCH RM A 1st Floor	
*Must be present during assigned session & submit ticket to be eligible to win.			
available activities			
HANDS-ON SCIENCE & RECRUITMENT FAIR:2nd Floor75 ACTIVITIES + COLLEGE & CAREER INFO.2nd Floor			
INTERACTIVE TABLES: LED BLING * SCENTED Main 1st Floor SANITIZER * ZIP LINES * ANIMALS UP CLOSE		Main 1st Floor	
SPECIAL SESSION JUST FOR TEACHERS: LEARN 5 STEM CLASSROOM PROJECTS		GENIUS RM 1st Floor	
optional shows			
12:30 PM 1:30 PM	SCIENCE LIVE! SHOW	1st Floor	
1:30 PM	PLANETARIUM SHOW	1st Floor	
conference adjourns 🖻 2:00 pm			
2:00 PM to 2:30 PM	SUBMIT COMPLETED SURVEY TO RECEIVE A FUN TAKE-HOME SCIENCE ITEM Surveys are in teachers' packets (Students-yellow; teachers-blue)	Lobby Note: Lost forms cannot be replaced!	



- Butner Public Schools
- Deer Creek Intermediate School
- Deer Creek Middle School
- Haskell High School

- Hilldale High School
- Meeker Public Schools
- Mount St. Mary High School
- Paden High School





- Central Junior High School
- Sayre Schools
- Tulsa Engineering Academy at Memorial
- Tulsa Tech Center Bixby HS
- Tulsa Tech Center Broken Arrow HS
- Tulsa Tech Center Collinsville HS

- Tulsa Tech Center HSC
- Tulsa Tech Center Skiatook HS
- Tulsa Tech Center STEM Academy
- Tulsa Tech Center Union 9th Grade
- Tulsa Tech Center Union HS





- Arnett High School
- Gore High School
- Gore Upper Elementary School
- Lindsay High School
- Mannford High School
- Memorial High School

- Morrison Public School
- Owasso 8th Grade Center
- Prue High School
- Sapulpa Indian Education
- Sapulpa Middle School





- **Glenpool Intermediate** •
- **Glenpool Middle School** •
- •
- Newman Middle School •
- Wells Middle School •

- Whittier Elementary School
- Whittier Middle School
- James L. Capps Middle School Will Rogers Junior High School
 - Yukon Middle School

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- Alcott Middle School
- Choctaw Middle School
- E.W. Beavers Middle School
- Hefner Middle School
- Holland Hall

- Hydro-Eakly Public Schools
- Irving Middle School
- Kenneth Cooper Middle School
- Sequoyah Middle School Edmond
- St. Catherine School





- Dr. Karl Reid •
- Jenks 7th Grade Center
- Jenks 8th Grade Center
- Jenks East Intermediate School
 Union 9th Grade Center
- Jenks West Intermediate School
 Union Middle School STEM
- Stillwater Junior High
- Stillwater Public Schools Indian Education
- Union 8th Grade Center

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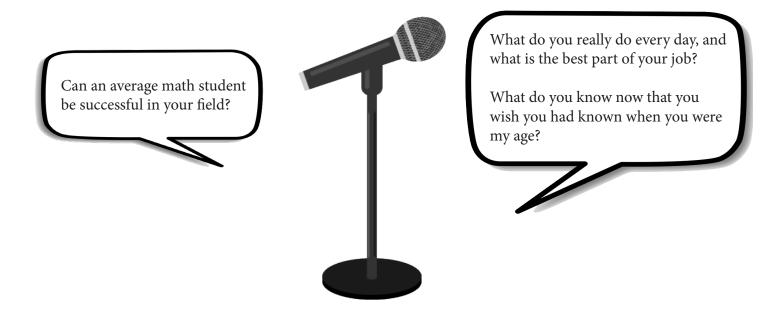
- Ada Junior High School
- Checotah Middle School
- Clyde Boyd Middle School
- Lomega High School
- Longfellow Middle School
- Olive Public School
- Oneta Ridge Middle School
- Washington Elementary School





INTERACTIVE PANEL SESSION Hear their stories & ask the panelist questions!

Check your agenda for your scheduled session time * Auditorium, 1st Floor



Hear from these outstanding Oklahoma Women in Science:

Jennifer Chain, Research Scientist Oklahoma Blood Institure

Mary Beth Davis, Veterinarian

Pet Friends Veterinary Hospital

Mary Elizabeth Mach, Civil Engineer Garver Oklahoma Water Team

Ann Money, Marine Biologist Oklahoma Aquarium

Marci Novak, Meterologist Fox 25

Rachel Parramore, Air Traffic Control Specialist Federal Aviation Administration



TEACHERS' LOUNGE Science Experiment Learning Lab

Teachers Only * Genius Room - 1st Fl./West * All Day/Come-&-Go Format



This come-and-go session gives teachers the opportunity to experience and learn five easily replicated fun and engaging hands-on STEM activities that explore biology, chemistry, botany, electrical engineering, plus environmental & physical science. The activities can be leveled for a large age range and are aligned to Oklahoma Academic Standards.

Teachers who turn in their event surveys at the end of the day will receive a take-home kit that includes activity sheets, materials, and curriculum for all five activities! Surveys must be turned in between 2:00-2:30 p.m. the day of the conference at the check-in table in the lobby to receive the materials.

Learn these Activities for Your Classroom:

Discover Hidden Prints

Build a device that will create a three-dimensional image or video that appears to be in midair.

Hologram Pyramid Projector Use iodine fuming to reveal latent fingerprints on porous surfaces. This turn of the 20th Century forensic technique is still widely used today.

Build Your Own Speaker Explore the inner workings of a speaker by constructing one from copper wire and neodymium magnets.

Electrolyte Challenge Create a circuit tester and use it to compare the electrolyte levels in sports drinks and other liquids.

Dendrochronology and Climate

Analyze tree rings to draw conclusions about climate, pest infestations, and environmental disturbances.

Light refreshments are available to teachers in the Lounge Session throughout the day.

HANDS-ON SCIENCE & RECRUITMENT FAIR

ORGANIZATION NAME	BOOTH/ACTIVITY
ACS - Oklahoma State University Student Chapter	OSU Stoplight and Slime
Advanced Materials & Electrochemistry for Energy Research Group	Batteries and Electrochemical Energy Storage
Altus AFB STEM Team	Precision Measurement and Aviation Electronics
Assoc. for Women Geoscientists Boone Pickens School of Geology, Oklahoma State University	Investigating Geology: Rocks, Resources, and Fossils
Biosystems & Agricultural Engineering - Oklahoma State University	Liquid Nitrogen Ice Cream
Cameron University Engineering and Mathematics: It's MathE	It's MathE
Cameron University Physics: CU Physics Circus	CU Physics Circus
Cameron University Dept. of Chemistry, Physics, and Engineering: Hands-on Chemistry	Hands on Activities with Chemistry
Cellular & Behavioral Neurobiology - OU - Norman	Hands-on Brain Activities
East Central University - Biology	Blooming Biologists
East Central University Physics Dept.	The Physics of Ultrasound and Light
Electrochemical Society (ECS), Oklahoma Chapter	Lemon power and metal coating
Extreme Animals, LLC	Exotic Animal Educational Program & Adventures
Federal Aviation Administration 99's International Women's Pilot Organization	It Takes PRACTICE to be an Air Traffic Controller
KISS Institute for Practical Robotics	Autonomous Robots!
Laboratory of Molecular Biology & Cytometry Research at OUHSC	Basic Science to Patients: Biological Core Facility
Langston University Mathematics Department	Inspirational Women in Mathematics
NASA Oklahoma Space Grant Consortium	Having a BLAST with NASA OSGC!
Noble Research Institute	Strawberry DNA Extraction
Northern Oklahoma College	Building Bridges to a Career in STEM
OGE Energy	Positive Energy TOGEther - STEM Career Quiz
Oklahoma Christian University	Using Chemistry to Decode Hidden Messages
Oklahoma City Community College	Catapult into STEM
Oklahoma City University	Discover Science at OCU - Mad Scientist Lab
Oklahoma Geological Survey	Making Waves in the Geosciences!
Oklahoma Louis Stokes Alliance for Minority Participation	OSU Forensic Science - Seeing the Unseen
Oklahoma School of Science & Mathematics	Cadfish Robotics
Oklahoma State 4-H Youth Development	A-mazing Spheros
Oklahoma State University Electrical & Construction Engineering Technology	Building a Sustainable Future
Oklahoma State University - Industrial Engineering Dept.	Design the Next Big Thing!
Oklahoma State University Mechanical, Fire Protection & Safety Engineering Technology	Fire Dynamics Analysis through Videorecording
Oklahoma State University College of Engineering, Architecture, and Technology	CEAT DNA Extraction Necklace

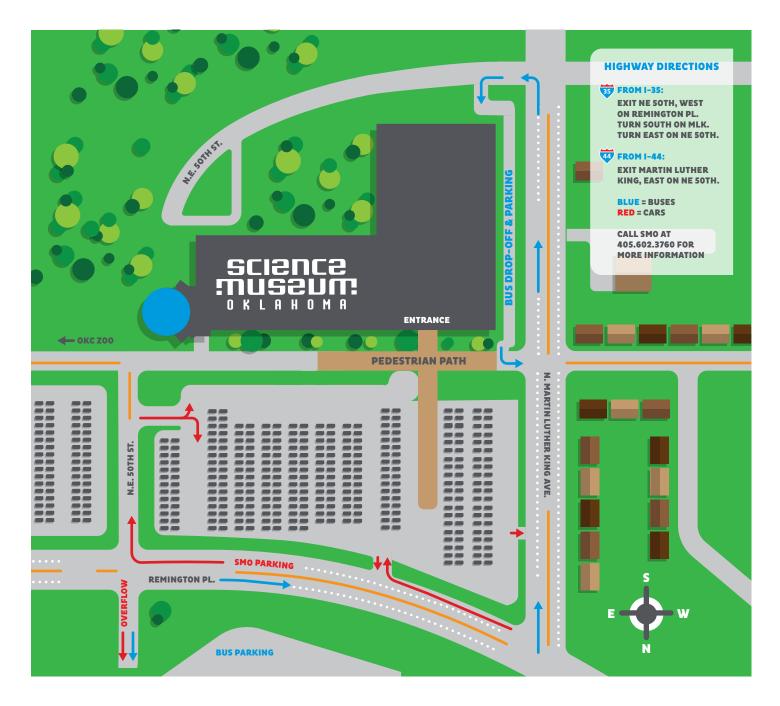
HANDS-ON SCIENCE & RECRUITMENT FAIR

ORGANIZATION NAME	BOOTH/ACTIVITY	
Oklahoma State University Dept. of Chemistry	Exploring the Colorful World of Metals	
Oklahoma State University Dept. of Civil & Environmental Engineering	Taking the Waste Out of Wastewater	
Oklahoma State University Dept. of Psychology	Psychology as Science	
Oklahoma State University Dept. of Soil Sciences & Environmental Science Program	Soil: Nature's Water Filter	
Oklahoma State University Statistics Department	How Statistics Improve Your Chance of Winning	
Oklahoma Water Survey/University of Oklahoma	OKH2O - Propensity for Density!	
OKWIT Oklahoma Women in Tech	Fun with Spaghetti - Future is Female	
OSU Chemical Engineering	Exploring Chemical & Biomedical Engineering through Math & Computing	
OSU Department of Horticulture & Landscape Architecture	Water Conservation in the Landscape	
OSU Department of Plant and Soil Sciences	GMO or Non-GMO	
OSU Insect Adventure	OSU Insect Adventure	
OSU Mechanical Engineering MS2M and BAMM labs	Artificial Muscles and Biomechanics	
OSU Microbiology and Molecular Genetics Department.	Wonderful World of Bacteria	
OSUIT- Orthotic & Prosthetic Technologies	Orthotic & Prosthetic Technologies	
OSUTeach	Light Up Your Life	
OUHSC College of Allied Health	Creepy Manikin Knows Allied Health	
Pawnee Nation College	Get Hands-on with Tribal Agriculture Classes	
QPS Engineering, LLC (QPSE)	Pinwheel Activity: Exploring Wind Turbines & Power!	
Rogers State University	Pollution Detective- Saving Local Water Sources	
SAGE STEAM Camp at SWOSU	Adding Arts & Humanities to make STEAM	
Skeletons: Museum of Osteology	Forensic Osteology & Pathology: Human Skulls	
Southern Nazarene University Chemistry Department	In the Mood to Make Color Changing Liquid Crystals?	
Southwestern Oklahoma State University Dept. of Biological Sciences-Biology Club	Discovering Microbes and Edible DNA	
SpiritWind Kidz Ranch / KidWind / Enel Green Power	Wind Energy STEM & Careers	
Stephenson School of Biomedical Engineering	Alginate Hydrogel STEM Activity	
SWOSU NASA Human Exploration Rover Challenge Team	Problem Solving/Critical Thinking Using Fun & Games	
Thick Descriptions	s.t.e.A.m. Oklahoma	
Tulsa Port of Catoosa	Why Barges Float	
Tulsa Regional STEM Alliance	Ozobots and Mars Rovers	
UCO Forensic Science Institute	Forensic Science Academy for Girls	
University of Central Oklahoma - Engineering & Physics	Forces & Pressure in Action	
OU College of Atmospheric & Geographic Sciences & South Central Climate Adaptation Science Center	Temperature Observations, Impacts, and Results	

HANDS-ON SCIENCE & RECRUITMENT FAIR

ORGANIZATION NAME	BOOTH/ACTIVITY
University Of Oklahoma IT	Get with IT - Hands on Fun
University of Oklahoma Math Dept.	Math puzzles
University of Oklahoma Pick and Hammer Club	Exploring Geology- Amazing Rocks and Minerals
University of Oklahoma Sooner Flight Academy	Sooner Flight Academy-Wind Bags and Whirly Gigs!
University of Science and Arts of Oklahoma	The Colors of STEAM.
Women Energy Network Greater Oklahoma	Discovering Oil and Gas, Geology Rocks!
Women In Physics Chapter at the University of Oklahoma	Everyday Wonders of Physics!
XploSafe	Explosives Detection Chemistry & Nanotechnology
Zoology Graduate Student Society	Zoology Rocks!

SCIENCE MUSEUM OKLAHOMA Bus Parking Map



Buses are not allowed in front of the museum. This means that students/teachers cannot be dropped off or picked up at the museum entrance. Bus parking is only allowed on the west side of the building or across the street at Remington Park.

Buses must enter the bus parking area from Martin Luther King Boulevard to avoid driving through the parking lot. The new Oklahoma City Zoo entrance does not provide access to the museum's lot. Please inform your bus driver of these guidelines prior to your arrival.

THE WOMEN IN SCIENCE CONFERENCE is sponsored by:







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