

THE EDUCATOR EVENT@HMNS



GENEROUSLY SUPPORTED BY **SHELL**

Saturday, January 20, 2018 | 8am to 1pm

Event Program

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The Houston Museum of Natural Science

www.hmns.org

For event questions, please contact:

EducatorEvent@hmns.org

Educator Information: What you need to know about The Educator Event @HMNS, generously supported by Shell.

Attending

- Teachers
- School Administrators
- Education undergraduate and graduate students
- Home School educators
- Non-educator guests must purchase a ticket to the museum in order to gain access to the museum's exhibit halls and are not allowed to attend workshops.

Registering

Registration is FREE for all educators. Register on the HMNS [website](#) today!

Check-in on the day of the event will be at 8am in the Grand Hall at the Houston Museum of Natural Science. Please print [The Educator Event Passport](#) (at the end of this document), and bring it with you on the day of the event! This will serve as your ticket to The Educator Event @HMNS and the HMNS permanent exhibit halls until close on Saturday, January 20, 2018. For additional venues or special exhibitions, visit the HMNS Youth Education Sales table during the event for discounted rates.

Continuing Professional Education Credits (3 hrs)

Educators have the opportunity to earn three hours of CPE credit by attending three workshops. At the end of each workshop, educators will receive a stamp on their passport.

Workshops last 45 minutes. Late arrivals will not receive credit.

In order to receive credit, Educators must exchange a completed stamped passport (found at the end of this document) for a certificate. Educators must get three total stamps on their passport from three different workshops.

Complete stamped passports can be exchanged for a certificate beginning at 12:30pm.

The Educator Event @HMNS - 2018

Location

Houston Museum of Natural Science
5555 Hermann Park Drive
Houston, TX 77030

GPS compatible address ([map](#)):

5800 Caroline Street
Houston, TX 77030

Paid Parking is available in our parking garage attached to the Museum (**Lot B**). Free parking is available in Hermann Park (**Lot C** – see below). If you park in the HMNS garage, be sure to visit the HMNS Youth Education Sales table to get discounts on parking as well as special exhibits.



Informational Tables

Informational tables will be in the Grand Hall on the main level from 8 am to 1pm. Visit the tables throughout the event to talk to representatives from the following organizations:

- 1940 Air Terminal Museum
- American Cowboy Museum
- Bayou Bend Collection and Gardens, MFAH
- Big Thicket National Preserve
- Blackwood Educational Land Institute
- Downtown Aquarium
- FotoFest International
- Geophysical Society of Houston
- Houston Center for Contemporary Craft
- Houston Museum of Natural Science
- Houston SPCA
- Houston Zoo
- Lawndale Art Center
- Lone Star Flight Museum
- Moody Gardens
- Museum of Fine Arts, Houston
- Offshore Energy Center
- San Jacinto Battleground/Battleship Texas SHS
- The Heritage Society
- The University of St. Thomas – School of Education and Human Services

Presentation Descriptions

Blackwood Educational Land Institute

21st Century Farms • Food • Living Soil

(Elementary, Middle and High School; Homeschool)

Blackwood Educational Land Institute will discuss how their practices of restorative agriculture and soil stewardship co-create a new educational landscape in which students, young and old alike, may freely explore their curiosities and reconnect with nature in a multidisciplinary setting.

Downtown Aquarium

Squidy Anatomy

(Elementary, Middle and High School)

More than 280 species of squid live in the oceans worldwide. Many are masters of transformation, able to change their skin color and pattern in seconds to stalk prey, escape enemies, attract mates, stand up to rivals, and communicate with one another. In Squidy Anatomy, learn all about these amazing creatures plus dissection techniques, external and internal squid anatomy, and animal adaptations.

FotoFest International

Using Photography to Explore Contemporary India

(Elementary, Middle and High School; Homeschool)

FotoFest's Literacy Through Photography Learning Program released a curricular companion to the 2018 Biennial INDIA: Contemporary Photographic and New Media Art. The free Biennial curriculum uses the artwork of the festival exhibitions to explore five themes: home, identity, gender, migration, and landscape. The Literacy Through Photography learning program at FotoFest improves students' facility with creative writing and self-expression through a unique blend of visual literacy, photography and creative art making.

Geophysical Society of Houston

Exploring for Petroleum – Modeling an Oil Reserve

(Middle School; Homeschool)

Participants will learn how geoscientists explore for oil and gas reserves. They will build a geologic model, swap it with another team and conduct a seismic survey to try to identify the location of the oil reservoir. Then they will “drill” to see if they struck it rich!

Houston Center for Contemporary Craft

Crafting the Classroom

(Elementary, Middle and High School; Homeschool)

Join us as we discuss lesson ideas for using hands-on craft projects to enrich students' understanding of core subjects. Hear about educational opportunities at Houston Center for Contemporary Craft.

Houston Museum of Natural Science

Accessibility at HMNS

(Elementary, Middle and High School; Home School)

Open new doors to museums for your students, and explore how HMNS can be used as a resource for you and your special needs students! Led by members of our accessibility committee, this session discusses the resources and programming available at HMNS and how to use these resources to make your museum visit engaging and comfortable for all.

Astronomy 101

(Elementary, Middle and High School; Home School)

Join our Planetarium Astronomer to learn how to use astronomy as a clock and calendar and how astronomy has become increasingly multi-disciplinary with high interest content for all grade levels. Join us to learn more about how exciting Astronomy topics can fit into Space Science, Earth Science, Life Science and Physical Science Classrooms.

Bugs on Wheels

(Elementary, Middle and High School; Home School)

Meet real Entomologists and Horticulturists from the Cockrell Butterfly Center! Butterfly Center staff members will introduce you to the spectacular, exotic live specimens in this popular program! This interactive, hands-on look at the most ubiquitous group of animals in the world provides educational entertainment for students of all ages.

Death by Natural Causes, *Organized by the Houston Museum of Natural Science*

(Middle and High School)

Delve into Death by Natural Causes with curator, Nicole Temple. Explore the differences of venom and poison and discover scientific terminology surrounding this upcoming exhibit. Participate in a hands-on activity that you and your students will never forget.

Discovery Dome

(Elementary, Middle and High School; Home School)

Bring the wonders of HMNS's Burke Baker Planetarium to your school with the portable, inflatable Discovery Dome! Young learners can explore the night sky with Elmo and Big Bird or take a ride to all the planets. Older students can uncover the mysteries of dark matter and dark energy, learn how We Are Stars, and discover the biology behind the human body. Our programs all cover TEKS objectives on a variety of topics, including weather, astronomy, geology and more! Our Discovery Dome becomes your giant tent as you camp out in the cosmos for this unique experience.

Houston Museum of Natural Science (continued)

ExxonMobil Educator Maker Labs

(Elementary, Middle and High School; Home School)

Join us for the ExxonMobil Educator Maker Lab! In this workshop, learn how to engage learners in problem based, open-ended activities. Participants will investigate simple machines and cams to create a working automaton and learn to solve challenges related to TEKS based objectives. Take your simple machines to the next level!

Wildlife on Wheels

(Elementary, Middle and High School; Home School)

Featuring a wide variety of live animals and real Museum specimens, Wildlife On Wheels gives students a unique, hands-on opportunity to learn the basics of animal life. Meet unusual animals and learn about their adaptations for survival as you experience life science in a whole new way!

Houston Zoo

Creating Conservation Champions!

(Elementary, Middle and High School; Home School)

In this workshop, you will participate in hands-on activities that you can use in your classroom, learn about how your school can be a part of the amazing partnerships the zoo is creating, and find out how to bring the Zoo to your school through our Zoomobile program.

Lawndale Art Center

Plant Prints Workshop

(Elementary, Middle and High School; Homeschool)

Join Lawndale Art Center in our Plant Print Workshop where we'll learn about printmaking in contemporary art and create linocut-inspired prints of our very own!

Lone Star Flight Museum

Aviation S.T.E.M. – Evolution of Education and Technology

(Elementary, Middle and High School; Home School)

The Lone Star Flight Museum combines a comprehensive education program with an immersive aviation experience to inspire young people toward the study of STEM disciplines. We detail Texas' aviation history through the evolution of science with experiential learning to excite and empower our youth towards futures of promise and purpose.

Moody Gardens

Amazon Animals

(Elementary and Middle School)

"Amazon Animals", Road Show from Moody Gardens, offers an enriching multi-sensory experience into animals of the river, sky, and rainforest. With their own hands-on exploration of pelts, skins, and skulls your students will gain a deeper understanding of why conservation is important.

Museum of Fine Arts, Houston

The Art of Problem Solving

(Elementary and Middle School)

Explore inquiry-based techniques that connect the Museum of Fine Arts, Houston's permanent collections of world art with science, math, engineering, and technology. Integrate problem solving activities with higher order thinking skills and energize your classroom with the museum's online *Learning Through Art* curriculum.

Offshore Energy Center

Get Your Game On!

(Elementary School)

Who said learning wasn't supposed to be fun!! Join us in a lively, exciting workshop. Come and play games that are directly correlated to the science TEKS and support student learning dealing with energy, natural resources, and other earth science topics. This workshop will also provide you with STEM challenges ready to use in your classroom. Each participant will receive digital copies of the games and challenges on a flash drive. Some might even win games ready to use in their classrooms.

Busy Hands – Engaging Strategies for the Early Childhood Learner

(Elementary School)

Keeping students engaged in the learning process takes imagination and careful planning. Our workshop will provide you with different hands-on strategies that can be applied to almost every topic covered in your curriculum. Use these strategies to engage, explore, explain, evaluate, or enrich your teaching.

San Jacinto Battleground/Battleship Texas SHS

The Battle of San Jacinto – The Decisive Battle Which Took The World by Surprise

(Elementary, Middle and High School; Home School)

Come join us in exploring the battle of San Jacinto and soldier life on the Texas frontier during the 19th century! In this program we will discuss the Texan and Mexican armies and what it would be like to be an individual amongst their ranks; we will discuss how, against all odds, the decisive battle of San Jacinto ended as a Texian victory and what this meant for both Texas and American history.

The Tailored Teacher, LLC

Snazzy Science in the ECE Classroom

(Elementary School; Home School)

This workshop is designed for educators looking to take their weather unit to the next level! We will create hands on models, as well as explore ideas for whole group, small group, and centers activities.

Passport:

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In order to receive credit, Educators must exchange a completed stamped passport for a certificate. Educators must get 3 total stamps on their passport from three different workshops.

Name:		
School District: _____ _____ For CPE certificate (3 hours): Attend three workshops Receive stamps (below) for each Late arrivals to workshops will not receive stamp Exchange passport for certificate 12:30pm to 1pm		
1	2	3
Workshop Name	Workshop Name	Workshop Name
Time	Time	Time
WORKSHOP STAMP	WORKSHOP STAMP	WORKSHOP STAMP

2018 Schedule

The Educator Event @HMNS, generously supported by Shell

January 20, 2018

8am - 1pm

Check-in opens in the Grand Hall

Welcome Coffee and Informational Tables open in Grand Hall

Opening remarks from Shell

Featured Guest Speaker - Paul Bernhard, lead exhibit designer of the new Weiss Energy Hall

Time	Classroom 2	Classroom 3	Classroom 7	Classroom 8	Classroom 9	Classroom 10	Classroom 11	Classroom 12	Classroom 15	Classroom 16	Classroom 17	Classroom 18	Classroom 20	Classroom 22	Classroom 23	Classroom 24	Classroom 27	Classroom 28	Planetarium	
8:00-8:30am	Welcome Coffee and Informational Tables open in Grand Hall																			
8:30am-8:45am	Opening remarks from Shell																			
8:45-8:45am	Featured Guest Speaker - Paul Bernhard, lead exhibit designer of the new Weiss Energy Hall																			
	Presentations on the Lower Level																			
9:15-10:00am			Museum of Fine Arts, Houston The Art of Problem Solving (E & M)	Houston Zoo: Creating Conservation Champions! (E, M, H & HM)		Down town Aquarium: Squid Anatomy (E, M & H)	HANS: Exonkobil Educator Maker Labs (E, M, H & HM)	Geophysical Houston: Exploring for Petroleum (M & H)	Offshore Energy Center: Get Your Game On! (E)		Offshore Energy Center: Busy Hands-Engaging Strategies for the Early Childhood Learner (E)		HANS: Wildlife on Wheels (E, M, H & HM)	HANS: Discovery Dome (E, M, H & HM)						
10:10-10:55am	San Jacinto Battleground: The Battle of San Jacinto (E, M, H & HM)	Backsw oodland Institute: 21st Century Farms, Food, Living San (E, M, H & HM)					HANS: Exonkobil Educator Maker Labs (E, M, H & HM)													
11:05-11:50am				Houston Zoo: Creating Conservation Champions! (E, M, H & HM)	Footfast: Using Photography to Explore Contemporary India (E, M, H & HM)	Down town Aquarium: Squid Anatomy (E, M & H)	HANS: Death by Natural Causes (M & H)		Lawndale Art Center: Paint Pins Workshop (E, M, H & HM)	Offshore Energy Center: Get Your Game On! (E)										
12:00-12:45pm	San Jacinto Battleground: The Battle of San Jacinto (E, M, H & HM)			Houston Zoo: Creating Conservation Champions! (E, M, H & HM)			HANS: Death by Natural Causes (M & H)			Offshore Energy Center: Busy Hands-Engaging Strategies for the Early Childhood Learner (E)										
12:30-1:00 pm	Receive Certificates on Lower Level (must turn in completed passport to receive certification)																			

E = Elementary (K-5); M = Middle School Educators (6-8); H = High School Educators (9-12); HM = Home School Educators

The Houston Museum of Natural Science wishes to thank our 2017-2018 Partners in Education for their support of our science education programming.

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