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The Argus Observer (Oregon)

The Bryan News (Ohio)

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WTVQ 36 News (Kentucky)

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### Web Articles

### 1808 Delaware



### LIFE IN DELAWARE COUNTY

### Ohio's Earth Science Week Goes Virtual

⊙7 OCT, 2020

Ohioans are invited to join the **ODNR Division of Geological Survey** in celebrating the state's natural history during **Earth Science Week, October 11–17**.

This year's theme—"Earth Materials in Our Lives"—highlights the many ways that natural resources impact our lives and the ways our activities impact these materials.

"Ohio's geology has influenced the state's cultural and economic development since before statehood," said Ohio Governor Mike DeWine. "Earth Science Week celebrates that history and provides an opportunity for all Ohioans to explore and learn more about the role that natural resources play in their daily lives."

"Earth provides numerous raw materials, such as metals, industrial minerals, and groundwater, and these resources provide us with the materials necessary for creating products we depend on every day. However, extraction of these materials has many impacts on Earth and its inhabitants," said Mike Angle, State Geologist and Chief of the ODNR Division of Geological Survey. "Earth Science Week will promote public understanding of geoscience and stewardship of the planet and its resources."

In light of the restrictions on large gatherings during the COVID-19 pandemic, geologists and special guests will present several free webinars on a variety of topics.

Part of the Ohio Rock Talks series, the webinars for Earth Science Week include:

Friday, October 9, 10 a.m., Rocks & Minerals in Our Lives

Tuesday, October 13, 10 a.m., Sound Waves & Water—Monitoring Ohio's Dynamic Geology

Wednesday, October 14, 12 p.m., Fossils of the Columbus Limestone & Ohio Places to view Them

Wednesday, October 14, 2 p.m., How to find Ohio Fossils

Thursday, October 15, 10 a.m., Reimagining the Geoscience Workforce: Accessible, Inclusive, Innovative

Friday, October 16, 10 a.m., Everyday Uses for Geologic Maps

Complete event details are available on the ODNR Division of Geological Survey website **here**.

Also available to Ohio teachers and educators are a limited number of Earth Science Week teacher toolkits. The toolkits include experiment instructions, a calendar, posters, activity sheets and more materials for teachers to use in the classroom. Toolkits are free (plus \$5 shipping) for any Ohio teacher, while supplies last.

Teacher toolkits, maps, and other publications can be ordered by contacting the Geologic Records Center at (614) 265-6576 or geo.survey@dnr.ohio.gov.

The ODNR Division of Geological Survey encourages educators and all Ohioans to take advantage of the opportunities available during Earth Science Week to explore and learn more about the geology beneath their feet.

Since 1998, the American Geological Institute has sponsored Earth Science Week. The annual event encourages people to learn about and gain better appreciation for the geosciences, while promoting an awareness of the natural world. Several Focus Days highlight the week by targeting themes such as science literacy, fossils, and geoscience careers.

Source: ODNR

Family Events Ohio Department Of Natural Resources Science

### 97.9 WHAV

# 97.9 WHAV Wavelengths

Home Local News ▼ Community Spotlight ▼ People & Places ▼ Membership Radio, Podcasts, TV ▼ Info. ▼

### **Buttonwoods Museum Brings Out Archaeological Artifacts During** Virtual Program Oct. 17

By News Editor | October 15, 2020



(File photograph.)



As a public service, 97.9 WHAV presents Community Spotlight at no charge for the benefit of Greater Haverhill nonprofit organizations. To submit news of events, fundraising appeals and other community calendar announcements, Click image.

Buttonwoods Museum is having a virtual Archaeology Open House to celebrate Massachusetts Archaeology Month and International Archaeology Day this Saturday.

Archaeology volunteer Nancy Lebar has brought rarely seen items from the Frederick A. Luce Collection out of storage and will be sharing them in a Zoom program Saturday, Oct. 17, at 2 p.m.

Featured artifacts include lithics, steatite bowl fragments and ceramic fragments that span the ancient occupational period of Native Americans in the Haverhill and Bradford areas. Lebar describes the uses of these artifacts and talks about the people who made and used them in their daily lives along the Merrimack River.

Pre-registration is required at haverhillhistory.org.

### American Geosciences Institute



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### Free Geoscience Resources

We're here to serve you, as always, by providing collaborative leadership and information that connects Earth, science, and people. Working with our many partners in the public, private, and nonprofit sectors, AGI provides numerous resources FREE to our member societies, geoscientists, researchers, educators, students, policymakers, and the public.

Never has it been more important to support strong science, and to share it as widely as possible. We invite you to share in the wealth of programs, products, publications, and services that AGI makes available to you at no cost. We hope you will explore the following opportunities.

#### Scholarly Information:

- Glossary of Geology Online Service (free through June 30, 2020)
- Open Geoscience Information Collections information and images
- GeoRef Previews 100,000 references to new publications
- Online Bibliographic Databases references to topical publications
- GeoWord of the Day daily email of a geoscience term and definition from the Glossary of Geology

#### **Higher Education & Workforce:**

- Geoscience Online Learning Initiative (GOLI) free-to-take online courses in the geosciences
- · Geoscience Currents factsheets, case studies, and the latest data
- Career Compass infographics detailing opportunities, pathways, and more

#### K-12 Education & Outreach:

- AGI/NAGT Lab Manual in Physical Geology e-text for manual adopters
- Education GeoSource and K-5 Geosource links to geoscience activities, media, and other resources
- Earth Science Week learning activities, information, videos, and more

#### **Public Policy:**

· Critical Issues - decision-relevant, impartial geoscience information on a range of topics and locales

Thank you for all you do to enhance the geoscience profession and to enrich and expand our shared understanding of the geosciences.

### Archaeological Institute of America



Who We Are >

January 31, 2020

### IAD AT THE PARTHENON WITH THE AIA-NASHVILLE SOCIETY



Did you know that Centennial Park in Nashville, Tennessee is home to a full-scale replica of the Athenian Parthenon? In 2019 the AIA-Nashville Society received an AIA Society Outreach Grant to host their first "International Archaeology Day at the Parthenon" event. The October 19th event, hosted by the Nashville Parthenon, shared the legacy of Greek culture and raised awareness of archaeological concepts with hundreds of visitors. From in-depth discussions to hands-on learning experiences, IAD at the Parthenon was an educational program appropriate for all ages.

Upon arrival, all museum visitors received an IAD Guide at the museum entrance. The Guide offered a map of IAD stations and events. Activity stations included: Make a Mosaic, Chocolate Chip Cookie Excavation, Match That Coin, Ask an Archaeologist, and the Tennessee Council for Professional Archaeology (TCPA) Photo Booth. After completing the activities, attendees earned a sticker badge naming them "Official Archaeologist of the Nashville Parthenon".

The Make a Mosaic station featured a loose parts play experience where children and families manipulated tesserae to form works of mosaic art. Materials in this station included: stone, tile, glass, beads, buttons, rubber, wood, and found objects.

The Chocolate Chip Cookie Excavation station had visitors digging to discover the chocolate chips in their cookie by using tools to excavate the matrix away from the chocolate chip. This activity highlighted observation as one of the key features in archaeological work.

The Match That Coin station saw a favorite among younger visitors who flipped coin cards to identify symbols on ancient, modern, and fictional coins. Ancient coins included coins featuring Zeus, Athens, and Dionysus; modern coins included a quarter and half-dollar; fictional coins included drawings of coins as detailed in the novel Percy Jackson and the Lightning Thief. They then had to find the matching coin card and identify it using the Ancient, Modern, or Fictional Coin Guide. Through this activity, visitors discovered how symbols on coins help archaeologists interpret them to give meaning to the layers of soil where they were discovered. While most of the visitors at this station had heard of ancient coins, many had never previously thought of them as artifacts that help archaeologists understand the past.

The Ask an Archaeologist station included archaeologists from Vanderbilt University who discussed their careers in archaeology, research interests, fieldwork experience, and current projects. They also answered general questions about archaeology and studying the past and it was a favorite stop for adult visitors.

The TCPA Photo Booth included local archaeologists who discussed the tools and gear used by archaeologists while offering fun, informal opportunities for archaeology-inspired photographs.

Other opportunities for raising awareness of archaeological concepts included building blocks to create Greek temples, Greek letter blocks to see and learn the Greek alphabet, an Archaeology Book Nook that doubled as the dedicated Quiet Area, and a Welcome Table providing AIA information as well as the IAD prizes.

Since Archaeology Day began in 2011, many AIA Societies have been able to debut new and exciting types of events with support from the AIA Society Outreach Grant. Contact the AIA to support the Society Outreach Grant today.

INTERNATIONAL ARCHAEOLOGY DAY BLOG





February 3, 2020

# AIA-TAMPA BAY SOCIETY HOSTS EVENT DESPITE TROPICAL STORM

Despite the untimely arrival of a tropical storm, the AIA-Tampa Bay Society forged ahead with plans to host an International Archaeology Day event in October 2019. The event was moved indoors and event organizers seem undeterred—they are making plans to hopefully move the event to the Tampa Bay Museum of Art for 2020.

As the rain began, a last minute venue change brought the 2019 event into the Amphitheater at the Marshall Student Center on University of South Florida's campus. The event featured five booths with different themes that showcased AIA membership; 3D printing technology and artifact scanners; archaeology lab equipment including a pXRF machine; archaeological reproductions used in experimental archaeology projects conducted in the Egadi islands off the coast of Sicily; a teaching collection of prehistoric and Roman archaeological ceramics from Sicily; and an arts and crafts station where participants could paint their own 3D prints of antiquities.

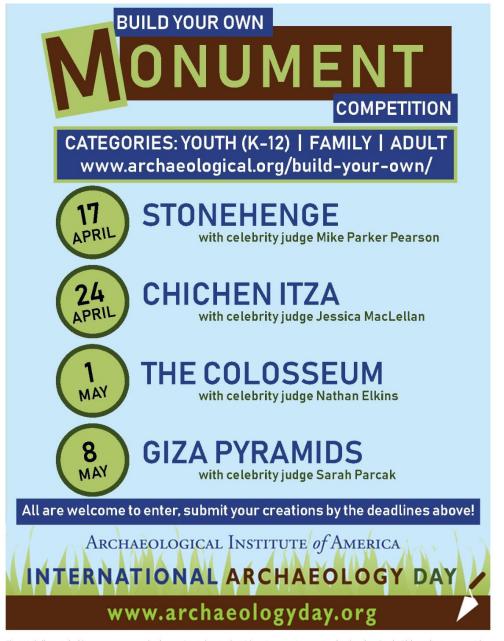
This event was funded in part through an AIA-Society Outreach Grant. The Tampa Bay Society was one of seven AIA local societies to receive a grant in 2019. We can't wait to see what the Tampa Bay Society has planned for IAD 2020!

INTERNATIONAL ARCHAEOLOGY DAY BLOG



April 13, 2020

### THE IAD BUILD YOUR OWN MONUMENT CHALLENGE HAS BEGUN



The AIA challenge to build your own monument has begun! Count down to the 10th anniversary of International Archaeology Day (IAD), by replicating some of the most iconic archaeological sites of all time—Stonehenge, Chichen Itza, he Colosseum, and the Pyramids at Giza. This archaeology-themed activity is a fun and educational way to help pass the time at home!

There are separate competitions for youths, families, and adults and considerations will be made for the sites that are the most realistic and/or use the most original materials. We also encourage edible submissions. Dig into your pantries or arts and crafts supplies and let your creativity shine. Each category will have two winners for each monument: one selected by our celebrity judge and a popular vote winner. Winners will receive a fun prize pack from the AIA!

### AIA News Blog

April 24, 2020

### BUILD YOUR OWN STONEHENGE RESULTS



As modern civilizations hunkered down to combat the spread of COVID-19, the Archaeological Institute of America launched a competition that challenged individuals and families stuck at home to replicate some of the most iconic monuments from ancient civilizations. The AIA's *Build Your Own Monument* competition invites participants to create miniature models of Stonehenge (deadline: April 17), the Castillo at Chichen Itza (deadline: April 24), the Colosseum (deadline: May 1), and the pyramids at Giza (deadline May 8) from materials found in and around their homes. The Build Your Own Monument competition, originally slated to run in the fall of 2020 as part of the Institute's celebrations of the 10th Anniversary of International Archaeology Day, was moved up to provide people with a diversion from the global pandemic and as an opportunity for them to show-off the baking and crafting skills that are helping to get them through these challenging times.

Submissions for the first round of the competition—Stonehenge—did not disappoint. While the iconic sarsens, trilithons, and bluestones of Stonehenge in southern England represent hundreds of years of effort and huge transportation challenges, homebound archaeology enthusiasts replicated the monument in a much shorter time period with an incredible assortment of materials. The AIA received 34 entries in three categories: adults, youth (K-12), and families. The materials used for these mini-wonders included books, cheese, clay, dominos, kazoos, makeup, toilet paper rolls, and much more! While most entries came from the United States, we were excited to get contributions from Austria, Canada, Cyprus, Kosovo, the United Arab Emirates, and the United Kingdom. The creative, quirky, wonderful submissions are a hit on social media and have attracted media attention—the contest was featured on the Atlas Obscura and Smithsonian Magazine websites this week.

In the *Build Your Own Monument* competition, two sets of winners are selected each week in each of the three categories: one selection is made by a professional archaeologist celebrity judge and another by popular vote. All winners receive an AIA prize pack. This week's celebrity judge, Mike Parker Pearson, Professor of British Later Prehistory at the Institute of Archaeology, University College London, has been investigating Stonehenge with a team of archaeologists and scientists since 2003. Parker Pearson reviewed the entries and said that he "enjoyed the hugely imaginative use of store cupboard staples and a surprising variety of household objects!" He sends his compliments to all who entered the challenge: "Congratulations to all who took part—it looks as if everyone enjoyed it."

June 4, 2020

### Transforming International Archaeology Day Celebrations In 2020

# Archaeological Institute of America INTERNATIONAL ARCHAEOLOGY October 17, 2020 www.archaeologyday.org

As we have ramped up our efforts leading to the celebration of the 10th anniversary of International Archaeology Day (IAD) in 2020, we have had to confront the impact the COVID-19 pandemic will have on our global event. IAD 2020 is going to look and feel very different from our previous celebrations of archaeology.

Since 2011, IAD has grown every year. Last year, IAD, was celebrated through 1,200 live in-person (mostly) events that showcased archaeology in diverse communities around the world. But in 2020, amidst a pandemic and its consequences, a traditional IAD does not seem possible. Yet we know that, like us, hundreds of Collaborating Organizations across the globe remain as dedicated as ever to sharing the stories of mankind's struggles and resiliency with public audiences and that IAD still offers a great opportunity for all of us to work together to spread an important message about our shared humanity.



### IAD BLOG

September 23, 2020

### National Arts Club Event To Feature Ambassador From Malta







The National Arts Club is celebrating International Archaeology Day with a very special event featuring Her Excellency Ambassador Ms. Vanessa Frazier, the Permanent Representative of Malta to the United Nations. Ambassador Frazier will discuss the archipelago's prehistoric megalithic monuments as she takes participants on a virtual tour of the Tarxien Temples archaeological complex. She will be accompanied on the virtual tour by Dr. Josef Caruana, curator, Heritage Malta.

The Tarxien Temples archaeological complex is a UNESCO World Heritage Site. The complex's four freestanding structures that date between 3600 and 2500 B.C.E., were discovered by a local farmer in 1913 and excavated from 1915 to 1919. Its central building is Malta's largest sacred prehistoric edifice.

In addition to the virtual tour, this unique online presentation will feature and discuss some of the splendid statuary from the National Museum of Archaeology in Valletta.

The National Arts Club would like to thank Ambassador Ms. Vanessa Frazier, Dr. Josef Caruana, and Mr. Giovanni Battista Buttigieg, Deputy Permanent Representative from Malta to the United Nations for their help in organizing this special program.



### IAD BLOG

October 8, 2020

Q&A WITH ARCHAEOLOGISTS TO COUNT DOWN TO IAD



### with archaeologists



presented by:

Archaeological Institute of America

Skype a Scientist -and-

Join live sessions at: www.skypeascientist.com/events



October 11 Noon Eastern Roman Toilets w/ Ann Olga Koloski-Ostrow



October 12 Noon Eastern Leprosy in Human Skeletons w/ Maria Liston



October 13 1pm Eastern Blogging Archaeology w/ Smiti Nathan



October 14 7pm Eastern How Archaeology Works w/ Eric Cline



October 15 1pm Eastern Ancient U.S. Southwest w/ Steve Lekson

The AIA Societies and Outreach and Education Committees partnered with Skype a Scientist to plan five online Q&A sessions with experts in the days leading up to International Archaeology Day.

Join us October 11-15 with your questions! You can access the session links on the Skype a Scientist website. After the live sessions, recordings will be evailable on the Skype a Scientist You Tube channel.

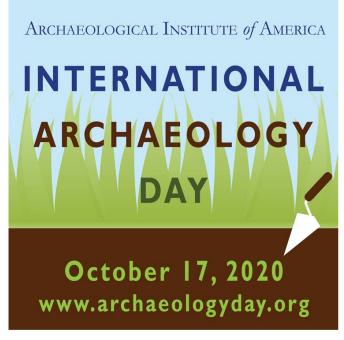
INTERNATIONAL ARCHAEOLOGY DAY BLOG



### IAD BLOG

October 17, 2020

### HAPPY INTERNATIONAL ARCHAEOLOGY DAY!



Happy 10th International Archaeology Day! While the IAD 10th Anniversary celebration did not come together as the community-centered events that have come to be the centerpiece of IAD, the reach of the AIA and its collaborators has expanded tremendously as hundreds of thousands of participants have been able to celebrate on digital platforms. View a list of events coming up today and later this month on the IAD calendar.

Highlights from the AIA this year include:

- An early launch of the Build Your Own Monument contest to engage archaeological enthusiasts quarantining during the pandemic
- Sixteen online listening sessions for IAD Collaborating Organizations to promote networking and support archaeology, history, heritage, cultural resource, parks, and museum professionals as they struggled with unprecedented challenges for presenting public programming
- A collaboration with the Veterans Curation Program to highlight a daily artifact from the collections of the U.S. Army Corps of Engineers on Facebook, Twitter, and Instagram in the five weeks leading up to International Archaeology Day
- $\bullet \ \ \mathsf{Four} \, \textcolor{red}{\mathsf{Tweetathons}} \, \mathsf{that} \, \mathsf{raised} \, \mathsf{awareness} \, \mathsf{about} \, \mathsf{International} \, \mathsf{Archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{the} \, \mathsf{field} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{and} \, \mathsf{of} \, \mathsf{archaeology} \, \mathsf{Day} \, \mathsf{Day$
- Q&A Sessions with archaeologists through Skype a Scientist
- $\bullet \ \ \text{An {\it \bf Archaeo Doodles contest} to help illustrate the AIA's {\it \bf Glossary} \ of archaeological terms}$

In the next ten years of International Archaeology Day we are looking forward to both expanding our virtual offerings as well as returning to community centered in-person events.

INTERNATIONAL ARCHAEOLOGY DAY BLOG





October 17, 2020

### AND THE WINNER IS .... ARCHAEOLOGY

In the AIA's third of four planned tweetathons in honor of International Archaeology Day this month, we asked our friends on Twitter to weigh in on the proper spelling of arch(a)eology. In the #ArchaeologyVsArcheology Challenge IAD collaborating organizations and individuals weighed in with whether they were on #TeamArchaeology or #TeamArchaeology. Several tweeters pointed out the etymology of the spelling difference, directing participants to a short history of the divergence that emerged out of the US Government Printing Office in 1890 or 1801. Read more on the Society for American Archaeology's website.

After some friendly competition and banter, the overwhelming winner (decided by hashtag frequency) was #TeamArchaeology, with 53 mentions on Friday in contrast to #TeamArchaeology's 31.

Today is the last International Archaeology Day tweetathon for this year and we invite you to document how you are celebrating today with #IAD2020 and to share the importance of archaeology with #WhyArchaeology.

## IAD Blog

October 19, 2020

### PROJECT CLAY PRESENTS: IAD CELEBRATION VIDEO



#### Video Transcript

In celebration of International Archaeology Day 2020, Project CLAY is pleased to present a video montage featuring archaeologists around the world, in hopes of inspiring kids around the world. We invite you to share this video with educators, colleagues, and through your social media outlets along with #ProjectCLAY and access3D.

Our Archaeology Day video highlights a range of specialties within the field from bio-medical research to pottery analysis to archaeological documentation and illustration. Notable participants include Cristina Bravo Asensio, co-director of the excavations at Torralba d'en Salort; Jayson Maurice Porter, historian and Fulbright-García Robles fellow; and Dave Wilder, Grammy-nominated songwriter and musician. This video is truly an interdisciplinary collaboration!

Project CLAY: Creative Learning through Archaeology is an educational outreach project co-directed by artist Kristin Donner and archaeologist Laura K. Harrison in partnership with ACCESS 3D Lab at the University of South Florida. Project CLAY uses art and digital media to inspire youth with the timeless stories of our human past.

 ${\sf Happy \ International \ Archaeology \ Day \ from \ Project \ CLAY!}$ 

Kristin Donner

 ${\it Co-Director\ of\ Art\ and\ Educational\ Outreach\ Project\ CLAY:\ Creative\ Learning\ through\ Archaeology\ traveladventure team @gmail.com}$ 

Laura K. Harrison Co-Director of Archaeology and Digital Media Project CLAY: Creative Learning through Archaeology harrisonl@usf.edu

### Arizona State University



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ASU Now: Access, Excellence, Impact



October 14, 2020

Dinosaurs aren't the only fossil game in town. In fact, anything from an acorn to a meteorite can be a fossil. It's not the shape or size that defines one, but the process — deep underground, through thousands of millennia, its matter goes through a fantastic transformation

To fossilize, an object — say, an insect — must be buried quickly. Once beneath the earth, groundwater seeps into the insect's body, carrying minerals with it. Over millions of years, those minerals replace the body's original matter, leaving behind a stone cast.

These fossils are frozen moments of time that can give us all kinds of information about past animals, plants, climate and more. They can answer questions about how human ancestors lived and even what kinds of asteroids inhabited our solar system millions of years ago.

On Oct. 14, National Fossil Day, we're celebrating these intriguing snapshots of the past. The **National Park Service** established this day "to promote public awareness and stewardship of fossils, as well as to foster a greater appreciation of their scientific and educational value."

In that spirit, we've gathered insights on some of the world's more unusual fossils from the Arizona State University scientists who study them.

### Atlas Obscura



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### Stay Home and Build Miniature Monuments, From Stonehenge to Giza

Who needs stones when you have marshmallows or foam?

BY JESSICA LEIGH HESTER . APRIL 21, 2020









This cheese, granola, and bread creation was made by Alexandra McNamara in Tappan, New York.
COURTESY ARCHAEOLOGICAL INSTITUTE OF AMERICA

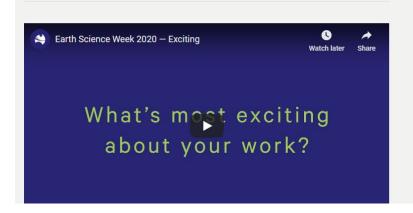
### AU Scope



### Celebrating Earth Science Week with Jess and Sima



Happy #EarthScienceWeek! Whether you have solar on your roof, groundwater-fed veggies in your fridge, or concern for human impact on Earth systems — Earth Science is important, and it's our life's work. To celebrate this week in 2020, we explore the joys, importance, misconceptions, and future of Earth Science in this video series with two researchers: <a href="Dr Jess Stromberg">Dr Jess Stromberg</a> from CSIRO Mineral Resources and Dr Sima Mousavi from The Australian National University.



#### CREATIVE PROJECT TEAM

<u>Dr Jessica Stromberg</u> (CSIRO), <u>Dr Sima Mousavi</u> (ANU) and <u>Jo Condon</u> (AuScope)

#### IDEAS FOR NEXT YEAR?

If you have ideas about how Australia's
Earth Science research community can
celebrate Earth Science Week next year,
please reach out to Jo Condon — we are
all ears, and want to bring the right
content to our wider community!

### Basin Now



### **Dinosaur National Monument Sharing Their Museum Collections**

### By Kristin Forbis, Oct 21, 2020

Earth Science Week might have snuck by us last week but Dinosaur National Monument is sharing their collection with the public virtually to keep the fun going. A few fun things include a link to search a geologic map of the state (or any state), a science of rocks worksheet, a link to view satellite images using Landsat, and several videos that the park has entitled "What's in the Museum Collections?" Through the videos anyone can see the collections that are housed at Dinosaur National Monument guided by geoscientists and paleontologists of the park. If you have ever been interested in the behind the scenes of Dinosaur National Monument, are looking for some fun things to do as a family or for homeschool, or are simply wanting to expand your knowledge, visit the Dinosaur National Monument Facebook page and explore the links.





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### **Happy National Fossil Day!**

Lethbridge, AB, Canada / b93.fm Harley Myhovich Oct 14, 2020 11:02 AM



Penelope Else / CC

How did Harley celebrate National Fossil Day?

...By giving a shoutout to some specific people....

Find out what Harley did for fossil day below!

...







### Blue Mountain Eagle



### National Fossil Day activities planned Oct. 10

Blue Mountain Eagle Sep 29, 2020 Updated Sep 29, 2020 💂 0



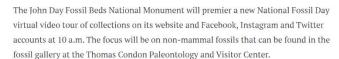
The Thomas Condon Paleontology and Visitor Center at the John Day Fossil Beds National Monument has fossils information boards and murals on exhibit

Buy No









The Thomas Condon Paleontology Center will also be open on Oct. 10 from 10 a.m. to 4 p.m. The theater, Junior Ranger room and Fossil Gallery remain closed in response to the COVID-19 pandemic. Activities are also available on the website, nps.gov/joda.

"National Fossil Day celebrates the fascinating science of paleontology, which peers into the distant past and explores worlds of plants and animals that no longer exist today," Roy Zipp, acting superintendent at John Day Fossil Beds, said. "The fossil gallery in the visitor center has been closed for most of this year, and we are excited to share virtually some of the amazing fossils you can't see in person at this time."

Additionally, the 11th annual National Fossil Day Art Contest is open to any U.S. residents. The theme this year is Permian marine life. For more information, visit nps.gov/subjects/fossilday/art-contest- 2020.htm.





### Boston Parents Paper



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### **National Fossil Day**

Art, Festivals & Fairs, History, Museum Events, Science













### **About**

Celebrate National Fossil Day—a celebration organized by the National Park Service—by taking a closer look at museum fossils with Harvard paleontologists. What can we see on ancient seafloors? How do modern animals help us understand extinct animals? What fossils still amaze scientists? What is it like to be a practicing paleontologist? Bring your curiosity and questions to this online event for all ages!

Presented by the Harvard Museum of Natural History and the Harvard Museums of Science & Culture.

Visit the event website to register for this free virtual event. To join the program, you will need to download the free Zoom app in advance. If you already have Zoom, you do not need to download it again. For details on how to improve your Zoom experience, visit the How to Attend an HMSC Program webpage.

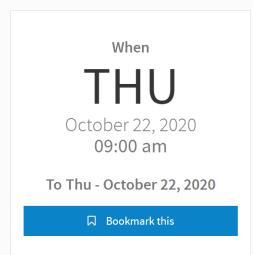
Contact

**HMSC Programs** 

Phone: 617-496-1638

Website: https://hmsc.harvard.edu/event/national-fossil-day-0

Send e-mail



#### Where

(Virtual) Harvard Museum of Natural History

1 Oxford St Cambridge, Massachusetts 02138 **United States** 

**Get Directions** 

### Camp Verde Bugle



TRUSTED NEWS LEADER FOR COTTONWOOD, CAMP VERDE & THE VERDE VALLEY

MON, DEC. 21

WEATHER 64.0°

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### Archaeology Center celebrates 10 years with virtual gala

Online event also benefits struggling Native American artists



Originally Published: October 14, 2020 1:59 p.m.













CAMP VERDE -- The Verde Valley Archaeology Center is marking International Archaeology Day and its Tenth Anniversary with a Virtual Gala Benefit.

International Archaeology Day (IAD) is a celebration of archaeology and its contributions to society. Every October the Archaeological Institute of American and archaeological organizations around the world, such as the Verde Valley Archaeology Center (VVAC), present archaeological programs and activities. The VVAC has held the Annual Gala, its most important fundraising event of the year, on International Archaeology Day. This year VVAC is going digital. Executive Director Ken Zoll says "Social distancing won't stop us from virtually gathering together to support the mission of the VVAC." 2020 is also the VVAC's Tenth Anniversary. So VVAC is celebrating both International Archaeology Day and their 10th Anniversary on Saturday, October 17, with an entertaining and interesting program of speakers and entertainment on the virtual benefit website https://givergy.us/vvac. The 45-minute Virtual Program will begin at 4:00 pm and be available to view at any time until 9:00 pm. Highlights of the Program include:

### Cañon City Daily Record



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On The Record

THINGS TO DO

### Apple Valley Cider Co. announces Tasting Room Hours at Penrose Cidery



#### By CANON CITY DAILY RECORD |

PUBLISHED: September 30, 2020 at 9:19 a.m. | UPDATED: October 1, 2020 at 10:28 a.m.



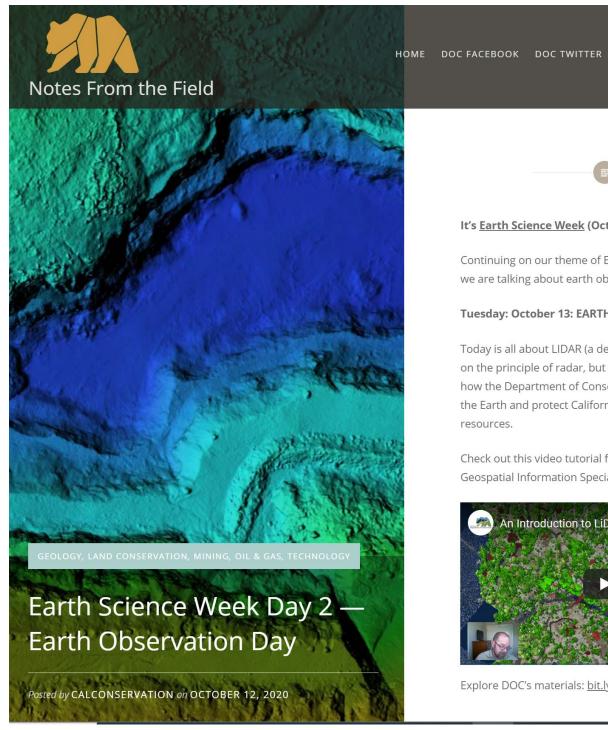
Apple Valley Cider announces that it will be opening its Penrose location at 103 Broadway, Suite 13, on Saturdays and Sundays from Noon to 6 p.m. as a public tasting room beginning Saturday. All of their ciders will be available for sampling and for sale during tasting room hours. Food will be available from new neighbor Penrose Pizzeria and Pub, visitors will be able to order food from the Cidery to be delivered to their table by Pizzeria staff.

Apple Valley Cider makes award-winning hard ciders in Penrose. All of their products are glutenfree and are made from 100% apple juice and pureed fruit, with no added sugar. They received international recognition last year when their Black Currant cider was named best in class fruit cider at the 2019 Great Lakes International Cider and Perry Competition out of 175 international fruit cider entries.

### Royal Gorge Regional Museum & History Center will host Activity Pick-Up Day: Paleontology

The Royal Gorge Regional Museum & History Center will host an activity pick-up day focused on paleontology from 10 a.m. to 1 p.m. Oct. 10. Activities will be available for ages ranging from early education to middle school. This event is in honor of National Fossil Day, an annual celebration held to highlight the scientific and educational value of paleontology and the importance of preserving fossils for future generations. Interested parties can stop by the museum at 612 Royal Gorge Blvd. anytime during the event to pick up these fun fossil activities. The program is free and open to the public. For more information, call the museum at 719- 269-9036 or email historycenter@canoncity.org.

### California Department of Conservation





DOC INSTAGRAM

### It's Earth Science Week (October 12-16)

Continuing on our theme of Earth Science Week, today we are talking about earth observation.

### Tuesday: October 13: EARTH OBSERVATION DAY

Today is all about LIDAR (a detection system which works on the principle of radar, but uses light from a laser) and how the Department of Conservation uses it to observe the Earth and protect California's precious natural

Check out this video tutorial from DOC's resident Geospatial Information Specialist Nate Roth:



Explore DOC's materials: bit.ly/doclidar

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This post contains recommendations from a CPL librarian. To get your own customized recommendation, just fill out the <u>May We Suggest</u> form — you can expect results within 10 days. All suggestions can be found on the <u>May We Suggest blog</u> or by <u>liking May We Suggest on</u>

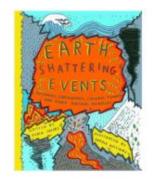
facebook.

### Earth Science Week October 11-17,

2020

- kids adults
- nonfiction may we suggest earth science week
- > October 8, 2020 | Michelle

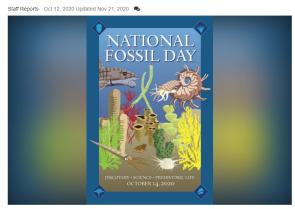
Every year, the American Geosciences Institute sponsors and promotes Earth Science Week. Time to get knee deep in our earth and all the nitty gritty things involved with it. We have a great selection of materials for you to check out. Be sure to also check out the American Geosciences Institute website for ways to celebrate Earth Science Week.



### Casa Grande Valley Newspapers



### Glyptodonts subject of National Fossil Day event at Pinal Geology and Mineral Museum



Submitted

#### **60000**

COOLIDGE — The Glyptodonts of Southern Arizona will be the topic of a special virtual event hosted by the Pinal Geology and Mineral Museum in observance of National Fossil Day.

National Fossil Day, a time to promote the nation's geological heritage, is Wednesday.

On Wednesday, Oct. 21, beginning at 7 p.m., the Pinal Geology and Mineral Museum in Coolidge will host an event on YouTube featuring paleontologist David Gillette, the Edwin Colbert curator at the Museum of Northern Arizona.

The subject of his presentation is "The Life and Times of the Most Famous Ice Age Animals You Never Heard of — The Glyptodonts of Southern Arizona."

"Dr. Gillette is a good speaker and knows his stuff," a notice about the event posted on the Pinal Geology and Mineral Museum Facebook page says.

Glyptodonts were four-legged creatures that resembled a tortoise but were as big as a Volkswagen Beetle, according to an article written by Gillette on the <u>Arizona Geological Survey website</u>.

"Glyptodonts were 4-legged tanks," Gillette wrote.

Though they once roamed throughout the region, they disappeared from Arizona in the middle of the Pleistocene Era, although they continued to live around the Gulf Coast until about 11,000 years ago, the article says.

Those wishing to watch the Pinal Geology and Mineral Museum event do not need to sign up in advance It's online at <a href="https://www.youtube.com/channel/UCXBlqZKmYlp5TZm-aLQK03Q">https://www.youtube.com/channel/UCXBlqZKmYlp5TZm-aLQK03Q</a>.

National Fossil Day is an annual event promoted by the National Park Service. Events are planned nationwide.

Grand Canyon National Park will celebrate the special day on Wednesday, Oct. 14, with virtual events on the park's <a href="Facebook"><u>Facebook page.</u></a>

From 10 a.m. to noon, park paleontologists will be on hand to answer questions about fossils and throughout the week, virtual Grand Canyon tours will focus on the region's paleontology.

Virtual activities offered by the National Park Service are online at www.npr.gov.

### CASE News



**Q** SEARCH



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Spotlight

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Opportunities

# Webinar: Federal Grant Proposal Writing for Geoscience Students

Written by **Emily Castellanos** April 29, 2020

This event has passed. View the FIU calendar for future events.



The American Geosciences Institute is hosting a webinar on **Wednesday, May 6 at 1 p.m.** providing an insight into the federal grant proposal opportunities available for geoscience students pursuing careers within academia.

This webinar will introduce a variety of federal fellowship programs, examine the key components of the application materials including eligibility and deadlines and provide advice to submit successful applications.

Speakers from four federal agencies will discuss the nuances of each of their individual programs as well as provide some advice on how to submit successful applications.

More information and how to register to the webinar can be found on the AGI website.

### Chiefland Citizen



### Mark My Words: They don't make talk show hosts like they used to... 🖸 SHARE 🔣 💆 🖂 ...)

By Mark Berryman
Thursday, October 22, 2020 at 9:59 am (Updated: October 22, 10:00 am)

We all know October is Breast Cancer Awareness Month and it's also Domestic Violence Awareness Month, both very good causes and worthy of the attention brought to each.

There are also weekly observances in October as well, like World Space Week (Oct. 4-10) and Earth Science Week (11-17).

### Cleveland.com

#### **Community News**

### Chagrin Falls Schools students happy to be back in full-day, in-person learning





Students at Chagrin Falls High School returned to full-day, in-person instruction this week for four days per week after being in a hybrid learning model for most of the school year. (Photo courtesy of Chagrin Falls Schools)

#### By Ed Wittenberg, special to cleveland.com

#### **Essay contest winner**

Clara Zabik, a sixth-grader at Chagrin Falls Intermediate School, was recently identified as an Earth Science Week 2020 Essay Contest winner.

Clara entered this contest, open to students in grades 6-9, as one of the options presented in her English language arts class in the fall.

The essay topic was "How We Process Earth Materials." The contest encouraged students to think about how we can develop practices and policies that allow us to derive practical value from raw materials while maintaining community values.

The essay was required to be no more than 300 words, and all essays were judged by a panel of geoscientists on grammar, content, presentation, creativity and relevance to and incorporation of the topic.

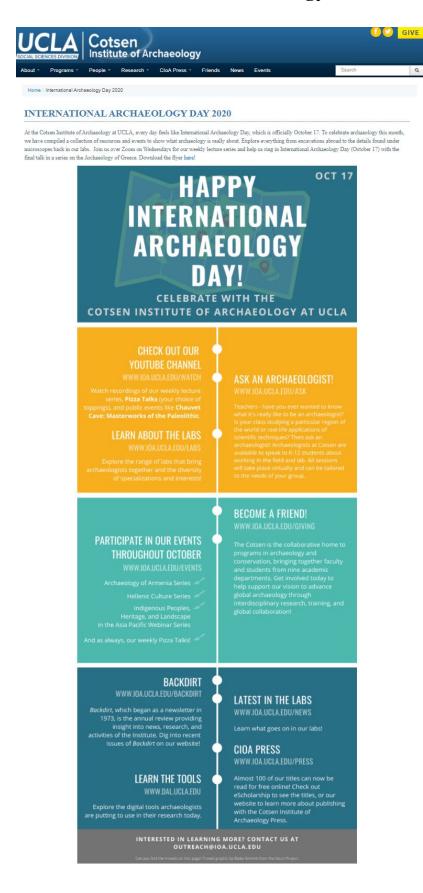
In her essay, Clara identified composting as a positive way we can impact the earth, and thoughtfully suggested ideas for others to think about relative to accessing locally grown food.

"Congratulations to Clara for her willingness to pursue new challenges and for her outstanding achievement," said Curtis Howell, principal of Chagrin Falls Intermediate School. "The entire CFIS community is proud of her work."

Clara has expressed her gratitude to sixth-grade ELA teacher Katherine Owen for her support.

Clara's essay can be found on the Earth Science Week website, earthsciweek.org, under the "Essay" section.

### Cotsen Institute of Archaeology (UCLA)



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**Events** 

Home / International Archaeology Day 2020

### **INTERNATIONAL ARCHAEOLOGY DAY 2020**

Check out all our offerings here!

Published on October 17, 2020.

### Critical Zone Observatories (CZO)



#### NSF BLOG: No soils, no life

They're beneath our feet, but we seldom hear important signals in the soils

October 14, 2020

A nation that destroys its soils destroys itself." -- President Franklin D. Roosevelt

We walk on soils, but often give little thought to what's right under our feet. In fact, soils are the nation's – and the world's – breadbasket, providing food and a host of other necessities, including new medicines and materials.

No soils, no life.

Soils form over hundreds of years but can be destroyed by a single event, such as a hurricane. They're vulnerable to wind and water erosion; pollutants, including runoff from highways; and nutrient loss.



Despite a humble exterior, soils are complex ecosystems composed of organic matter, minerals, water, air – and billions upon billions of organisms. These ecosystems orchestrate the processes essential for plant growth, as well as food and fiber production.

The U.S. National Science Foundation is funding researchers who study soils and their importance in our lives. "As the planet's population grows, scientists need a better understanding of the soil ecosystems that play a critical role in supporting societies around the world," says Enriqueta Barrera, a program director in NSF's Division of Earth Sciences.

During Earth Science Week 2020, with its theme "Earth materials in our lives," NSF celebrates the soils beneath us.

#### Ordering in for dinner? Plants long ago perfected the process.

Next time you're thinking about whether to cook dinner or order in, plants have been way ahead of you for eons.

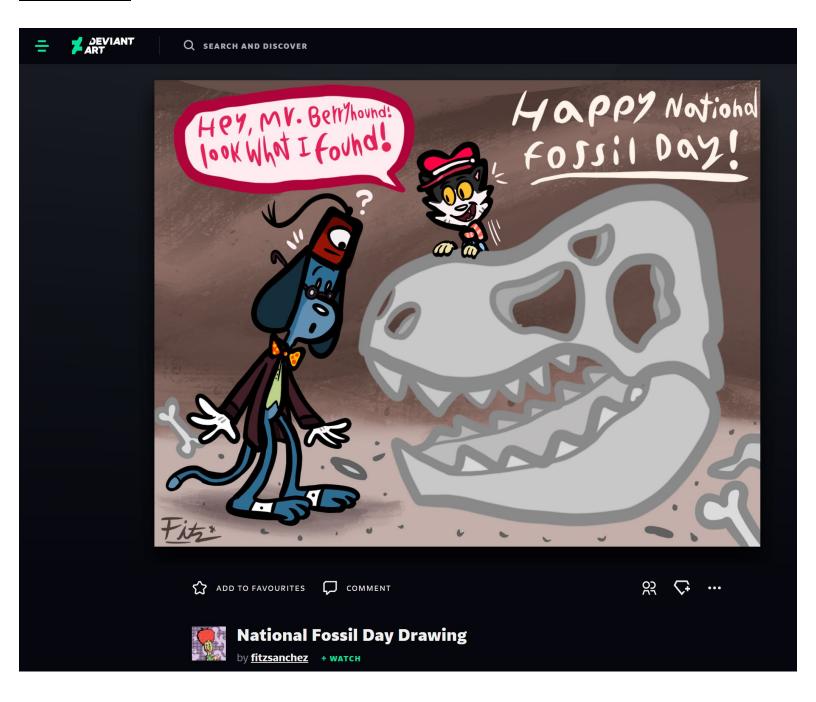
NSF-funded scientists at Rice and Cornell universities discovered that plants "call" for nutrients, using soil bacteria as a delivery service. Plants read the local environment and, when necessary, make and release molecules called flavonoids. These molecules attract microbes that infect the plants and form nitrogen nodules in the plants' roots, generating food.

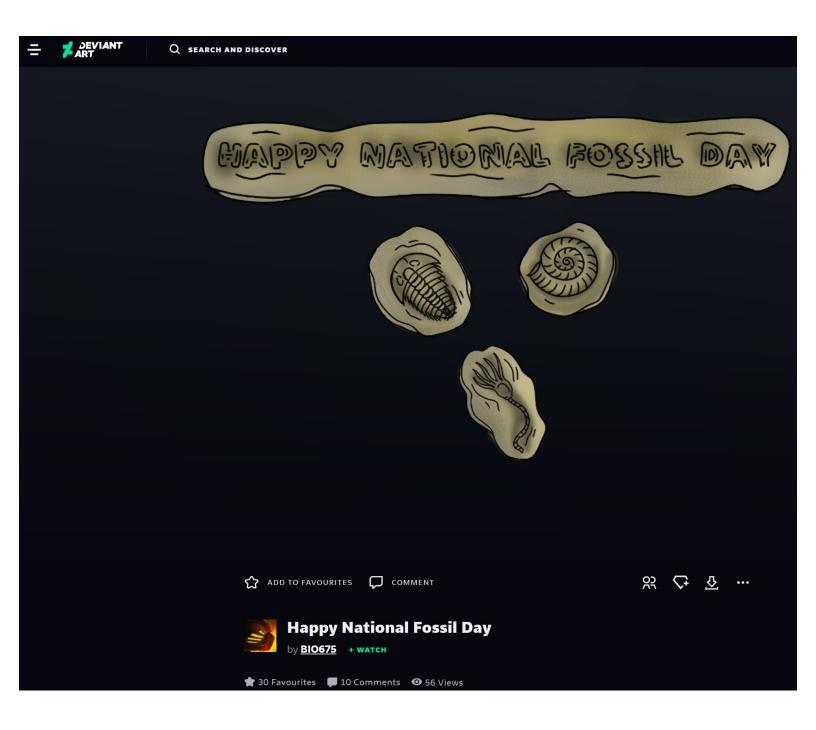
When nitrogen is already available, plants don't need to order in, says Rice biogeochemist Caroline Masiello. Their ability to sense the presence of a nearby, slow-release nitrogen source – such as organic carbon – satisfies plants' "hunger," and stills their flavonoid signals.

Understanding how soil carbon affects these signals offers scientists new ways of engineering beneficial interactions between plants and microbes and designing additives to balance deficiencies in soil.

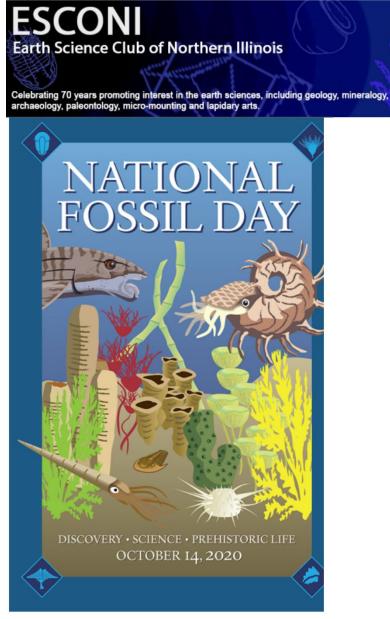
 $Read\ the\ full\ blog\ at\ https://beta.nsf.gov/science-matters/no-soils-no-life?linkId=102003605.$ 

### **DeviantArt**





### Earth Science Club of Northern Illinois (ESCONI)



Happy National Fossil Day 2020!!! National Fossil Day is run by the National Park Service as part of Earth Science Week. Details for NFD are <a href="here">here</a>, while you can find more about Earth Science Week <a href=here</a>.

During 2020 we celebrate the 11th Anniversary of National Fossil Day! Join paleontologists, educators, and students in fossil-related events and activities across the country in parks, classrooms, and online during National Fossil Day. National Fossil Day is an annual celebration held to highlight the scientific and educational value of paleontology and the importance of preserving fossils for future generations.

Posted on October 14, 2020 | Permalink

### Earth Science Partnership



### Earth Science Week 2020 with the Geological Society

Posted on 15 Oct, 2020



**Earth Science Week 2020** runs from Sunday 11th to Saturday 17th October 2020 in the UK and Ireland, with the theme this year being 'Earth materials in our lives'.

Coordinated by the Geological Society of London and American Geoscience Institute in the US, this week is an international celebration of the geology all around us.

The event now takes place in an increasing number of countries around the world and this year's theme explores the ways that Earth materials impact humans and the ways in which human activity impacts these materials in the 21st century.

Through public events like geowalks, hands-on activities, talks and open days, organisations and individuals aim to raise public awareness of geology and how it affects our lives. Click here to find out how to get involved or to

explore the resources available from the Geological Society website.



This entry was posted in Newsfeed and tagged #geology, #community, #geologists, #events, #geological society, #EarthSciWeek, #earth science. Bookmark the permalink.

#### Elkhorn Media Group



HOME COLUMBIA BASIN NORTHEAST OREGON EAST/SE OREGON



### National Fossil Day celebration at John Day Fossil Beds

By Logan Bagett on Friday, September 25th, 2020 in Eastern/Southeast Oregon News Eastern/Southeast Oregon Top Stories More Top Stories







**KIMBERLY, OR -** (Press Release from the John Day Fossil Beds National Monument)

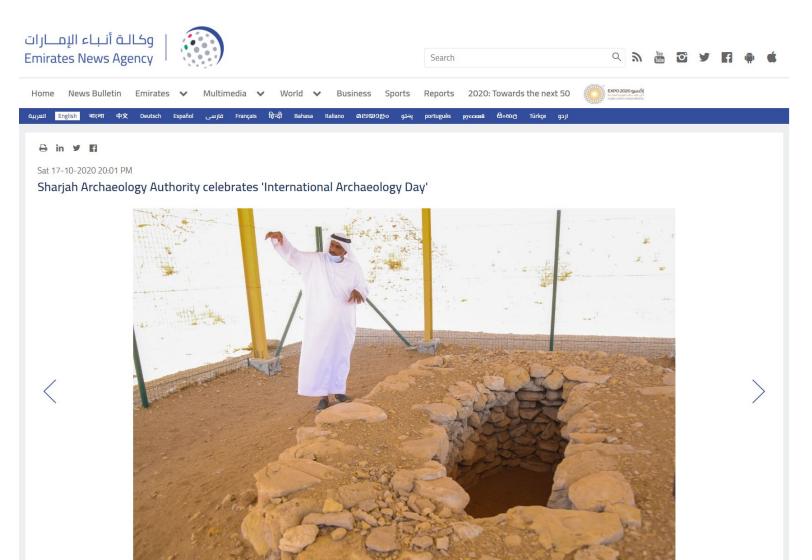
Join us virtually for a celebration of our national fossil heritage across the country. On October 10<sup>th</sup>, participate in National Fossil Day, an annual celebration held to highlight the scientific and educational value of paleontology and the importance of preserving fossils for future generations.

We will be premiering a new National Fossil Day virtual video tour of collections on our website and Facebook, Instagram, and Twitter accounts at 10am. We will focus on the cool non-mammal fossils that can be found in the fossil gallery at the Thomas Condon Paleontology and Visitor Center. Check out our social media accounts for posts about weird and wacky mammals the Monday through Friday leading up the 10<sup>th</sup>.

The Thomas Condon Paleontology Center will also be open on the  $10^{\rm th}$  from 10 am - 4 pm. The theater, Junior Ranger room and Fossil Gallery remain closed in response to the COVID-19 pandemic. However, you can still earn your Junior Paleontologist badge, John Day Fossil Beds Junior Ranger badge and pick up a new National Park Service paleontology coloring book. These activities are also available on our website, www.nps.gov/joda.

Roy Zipp, Acting Superintendent at John Day Fossil Beds says, "National Fossil Day celebrates the fascinating science of paleontology, which peers into the distant past and explores worlds of plants and animals that no longer exist today. The fossil gallery in the visitor center has been closed for most of this year, and we are excited to share virtually some of the amazing fossils you can't see in person at this time." We welcome you to get involved now and participate in the  $11^{th}$  annual National Fossil Day Art Contest sponsored by the National Park Service and National Fossil Day partners. The contest is open to any interested person, of any age. Entries will be judged based on originality, creativity and how well the submission addresses this year's contest theme. The theme of National Fossil Day this year is Permian marine life. You must be a resident of the United States to enter. For more details about submitting to the National Fossil Day Art Contest, please visit our link: https://www.nps.gov/subjects/fossilday/art-contest- 2020.htm.

### **Emirates News Agency**



SHARJAH, 17th October 2020 (WAM) - The Sharjah Archaeology Authority recently organized a large scale program to mark the annual International Archaeological Day, on 17th October, which included field visits to several archaeological sites and media tours of Jebel Buhais and Mleiha.

The program also included a virtual lecture delivered via Zoom, presented by Eisa Yousif, Director of the Department Archaeology at the Sharjah Archaeology Authority, entitled "The Pioneering Role of Archaeological Findings in the Emirate of Sharjah", which targeted employees of local and federal government institutions, specialists of archaeology and media representatives.

The tour included a visit to Jebel Al-Buhais, which contains more than 600 structures dating back through various periods. Excavations in cooperation with a German mission provided more evidence of settlement in that period with signs of animal domestication and living life.

A large group of pearl beads were found, and were unique to the Mleiha area, in addition to this, the group visited the Mleiha Archaeology Center and reviewed the interactive displays and archaeology displays to understand more about the environment.

Spreading the culture of archaeological awareness among groups of society Eisa Yousif, said: "We celebrate International Archaeology Day with various bodies and institutions around the world to mark this important occasion by highlighting archaeology, it's importance and position to all interested people, specialists and lovers of archaeology. The work and excavations accomplished by Sharjah revealed the human settlement in the emirate of more than 125,000 years, in addition to the fact that most of the missions specializing in antiquities started excavation operations in October.

### European Geosciences Union (EGU)



GeoLog

Network Divisions

2

GU Blogs » GeoLog » Earth Science Week 2020: Earth Materials in Our Lives – an A-Z!

# Earth Science Week 2020: Earth Materials in Our Lives – an A-Z!

Hazel Gibson and Terri Cook · October 2, 2020 · Blogging, Energy, Resources and the Environment, Science Communication · No Comments



Large similar folds in a salt mine in the Carpathians. Credit: Janos Urai (distributed via imaggeo.egu.eu)

Since 1998 the American Geosciences Institute has been running an annual celebration of all things geoscience – Earth Science Week. From its inception, Earth Science Week has grown in popularity and is now celebrated across the planet. This year Earth Science Week will run from 11 to 17 October and the theme of the week is "Earth Materials in Our Lives." As the American Geosciences Institute say on their website:

The coming year's event will focus on the ways that Earth materials impact humans — and the ways human activity impacts these materials — in the 21st century.

For EGU, although every one of our Divisions does work that relates to this idea, this theme ties *very* closely with the work of one of our Divisions, the Energy, Resources and Environment Division (ERE). Our EGU Head of Media and Communications Terri Cook, spoke to the deputy Division President Viktor Bruckman, to find out his thoughts about how Earth's materials impact humans and what this means for the Energy, Resources and Environment

#### What is the Energy, Resources and the Environment Division?

Energy, Resources and the Environment is among the most interdisciplinary divisions within EGU. Our members work on issues around natural (geoscience) resources, exploration, and the development of renewable energy of all kinds (wind, hydrological, solar, geothermal, biomass).

Why does the Energy, Resources and the Environment Division include 'Environment' and not just Energy & Resources?

Because an important focus of our division is to assess the impacts of resources exploration and energy generation on our environment. This can be linked to climate change, biodiversity and Agenda 2030, for instance.

Why is interdisciplinarity needed to meet the challenges of providing reliable and affordable supplies of energy and other Earth resources?

Because we are investigating natural systems. A systems approach typically includes various scientific disciplines to assess specific problems. Such problems (e.g. generation of renewable energy) are not trivial and need interdisciplinary research.

Regarding the Earth Science Week theme: What are some of the future challenges of providing reliable and affordable supplies of Earth materials?

This has several aspects: First of all, there is a strong political influence here, and this is associated to equal distribution of Earth materials. The second dimension is the efficiency of its use (less material consumption, more cascading use or recycling) and the third dimension is extraction with low environmental impact. It needs to be mentioned that I am talking about materials that are typically non-renewable resources (at least in human time-scales).

#### **EuroWeekly**



COLUMNISTS ~

**PROPERTY** 

### Celebrating archaeology in Cuevas del Almanzora with visits to ancient site



CREDIT: Ayuntamiento de Cuevas del Almanzora













CUEVAS del Almanzora is celebrating International Archaeology Day with guided visits to Fuente Alamo, one of the most important ancient Argaric Culture sites in the Mediterranean.

The Bronze Age site has remains from one of the oldest cultures in south-east Spain which date back more than 4,000 years old.

It is possible to distinguish what's left of dwellings and how they were set out according to social standing on the side of the hill on which the settlement stood, as well as constructions like the cistern used for storing water reserves and food.

It is also possible to make out the remains of a necropolis and tombs.

The tours are led by archaeologist Laura Larios, who explains what life in the settlement would have been like during a period of some 600 years between 1900 and 1300 BC, the community revolving around agriculture and mining activities.

Tourism and Culture councillor Maria Maria Isabel Ponce highlighted Cuevas' important historical and archaeological heritage and revealed, "we are working so that this important tourist and cultural resource is as well-known and valued as possible, but in addition we are also now on projects which will be a catalyst for tourism.

"This will allow us to position our municipality as a unique reference point in terms of the tourism, cultural and heritage offer, always from the basis of sustainability and responsible and safe development", the councillor promised.

The next Fuente Alamo visits will be on August 8 and 22, starting at 7pm. Places must be pre-booked and tours are carried out with the safety and protection measures stipulated by the health authorities.

### **Facebook**



### National Fossil Day-Australia

@nationalfossilday

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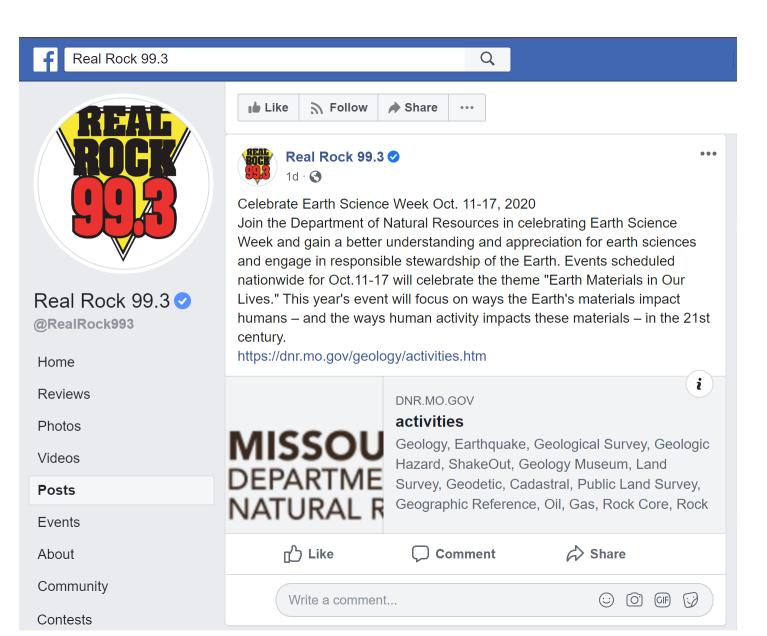


With Australia's National Fossil Day fast approaching on the 26th of July (like the page to find out more), new information has been released about some of the dino-prints found on the continent.

The study of fossil prints is called ichnology and the footprint are given scientific names as ichnospecies

https://www.abc.net.au/.../australias-largest-meat-.../12366880...







The Gem and Mineral Society of the Virginia Peninsula (GMSVP)

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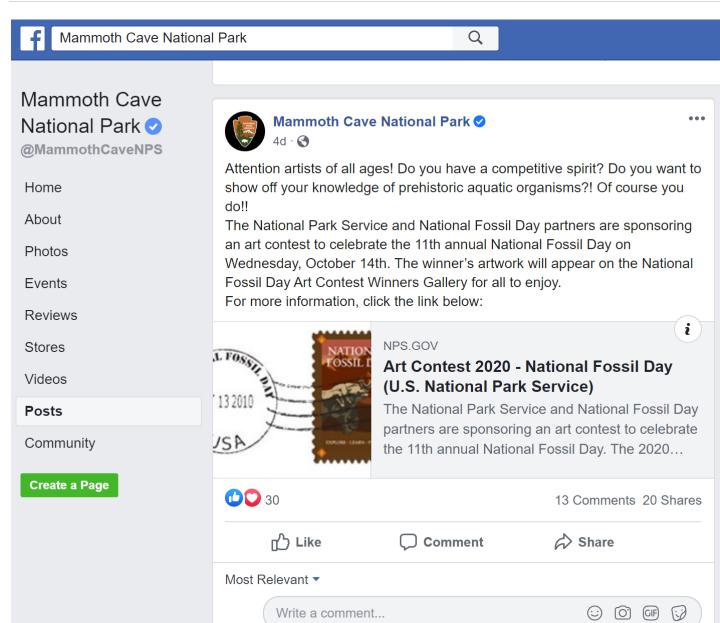
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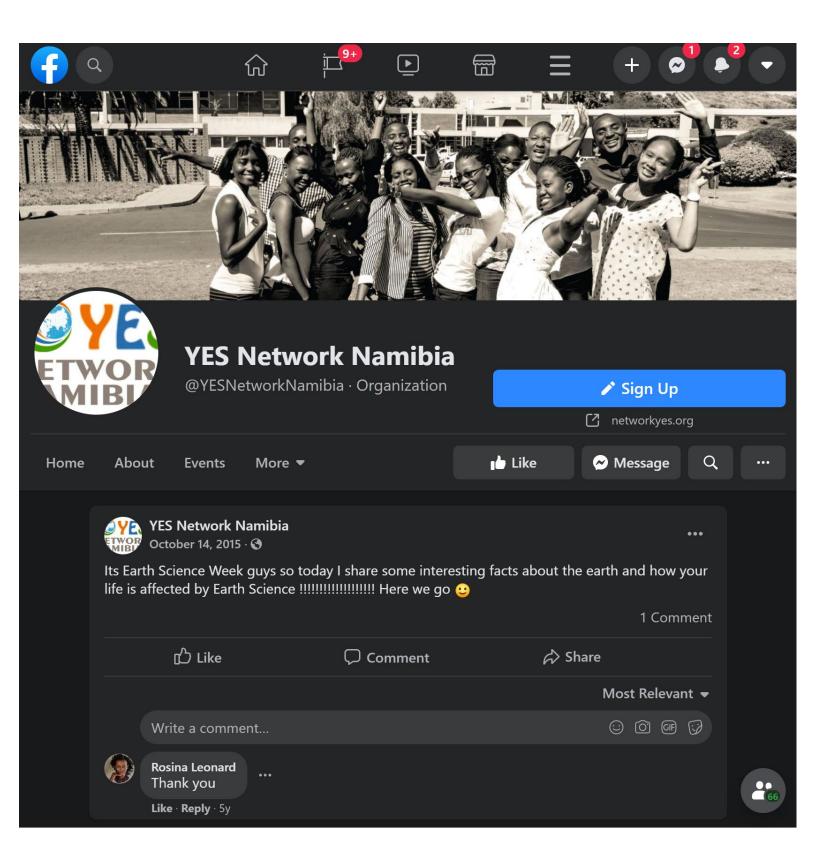
Community

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#### Government of Belize Press Office

October 9, 2018 at 4:59 PM · 🚱

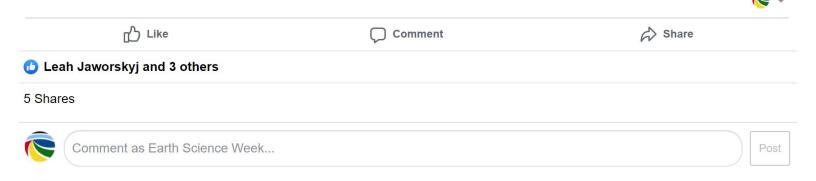
International Archaeology Day Slogan and Poem Competition!

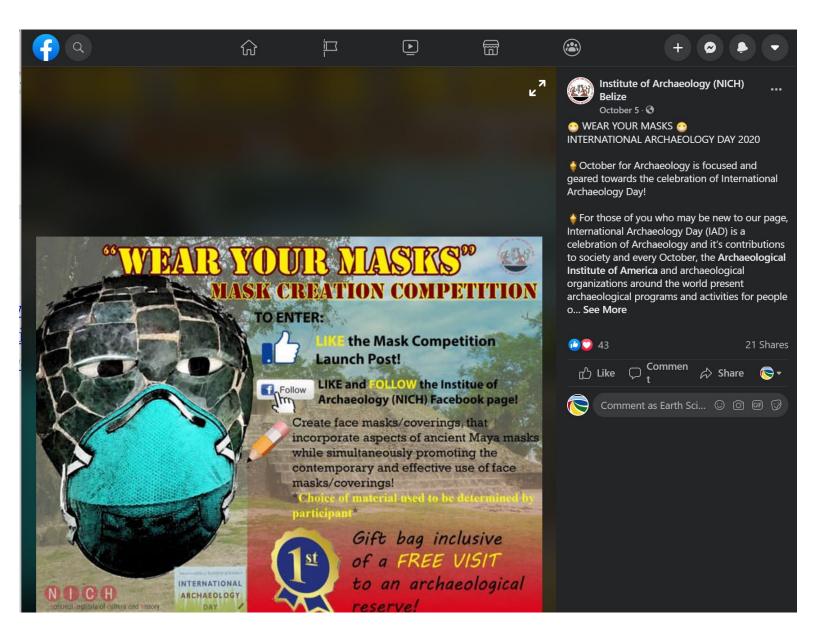
Open to high school and junior college students.

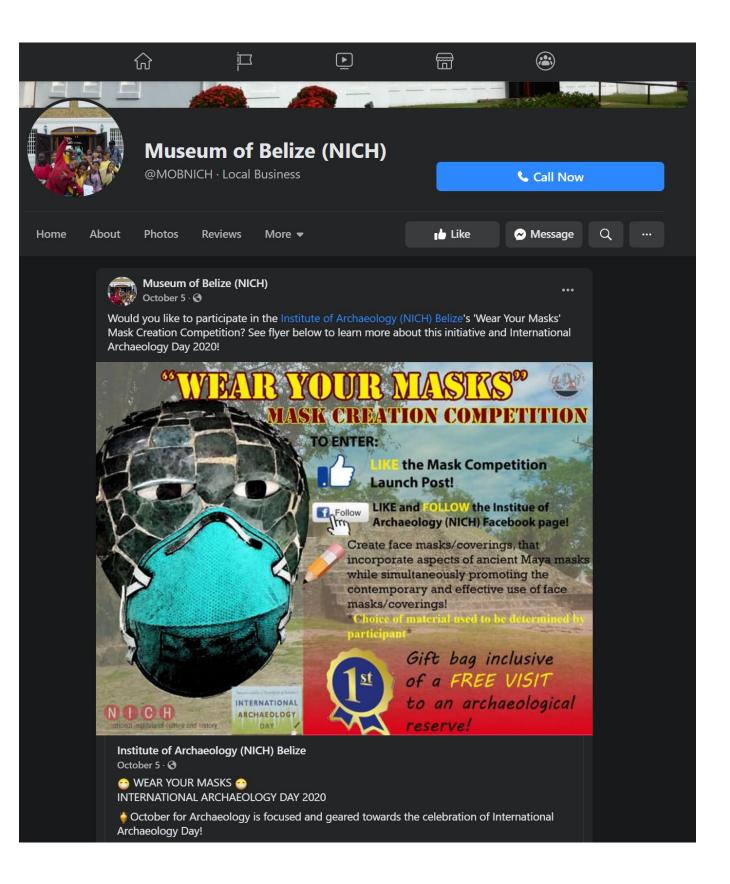


Institute of Archaeology (NICH) Belize October 9, 2018 at 11:57 AM ·

Are you in high school or junior college and want to win a tour of Actun Tunichil Muknal, AKA ATM? Here's how you can do that!



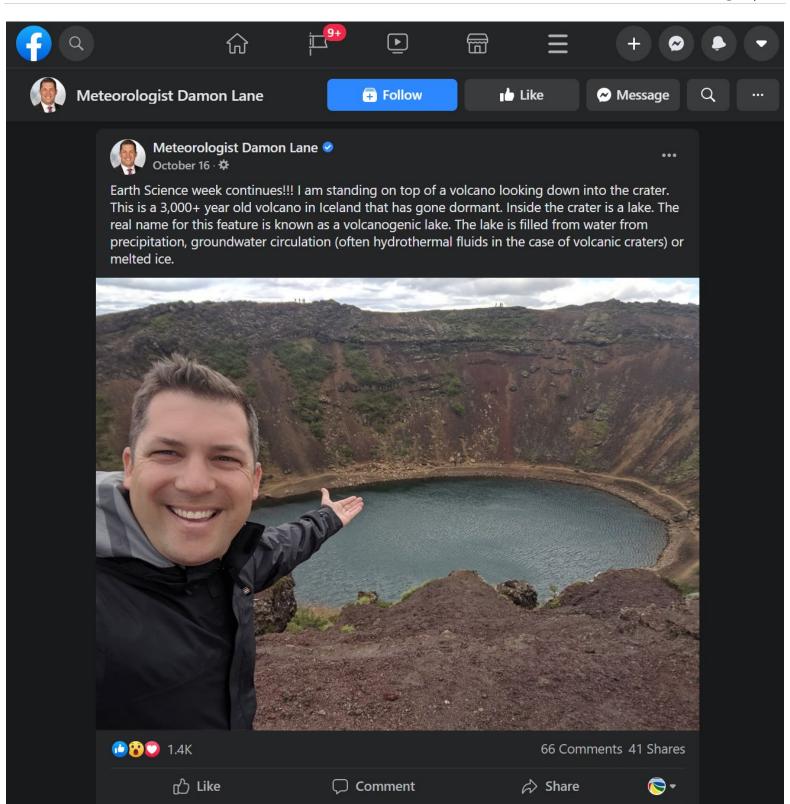


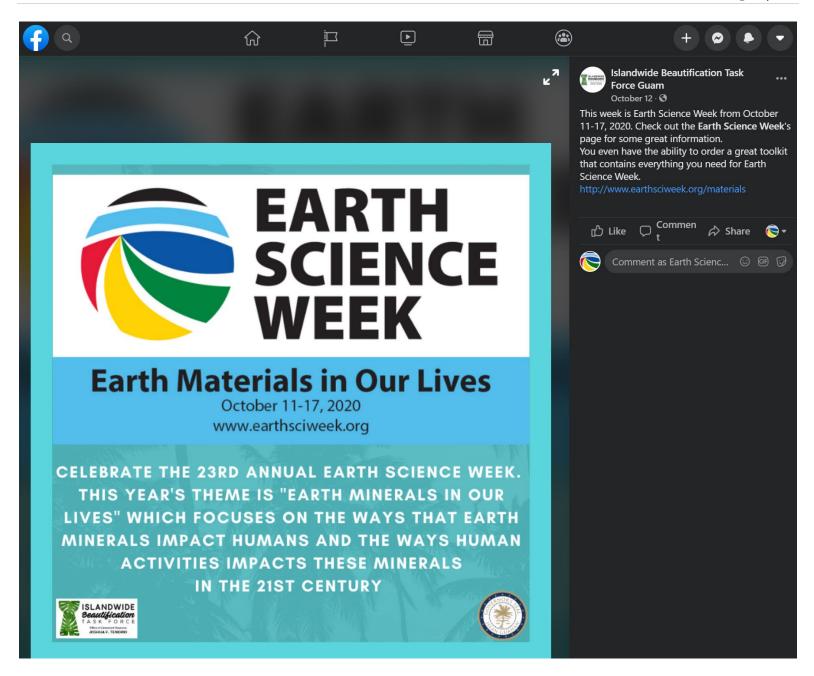








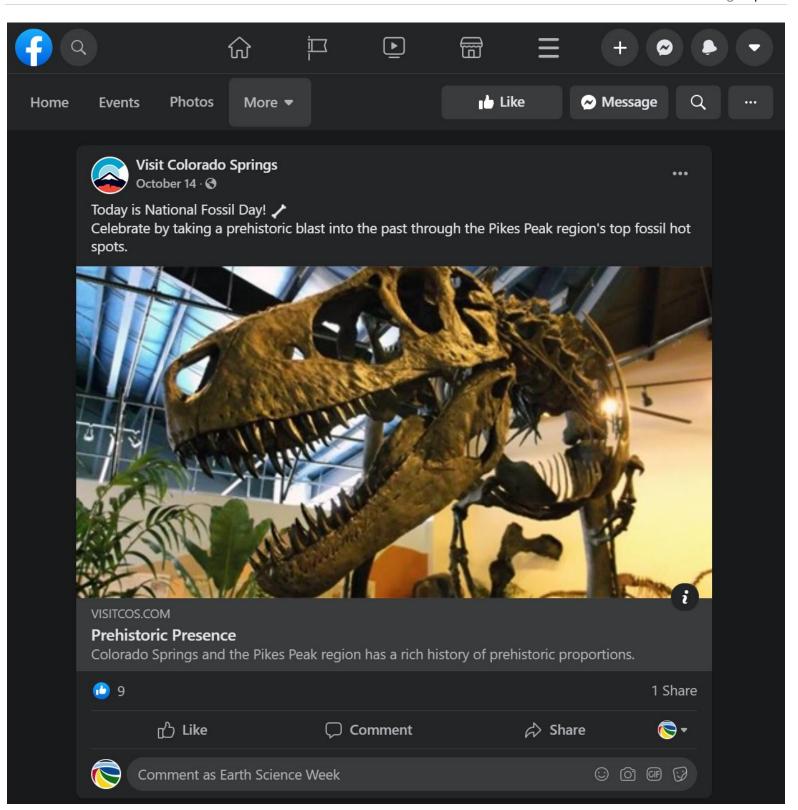








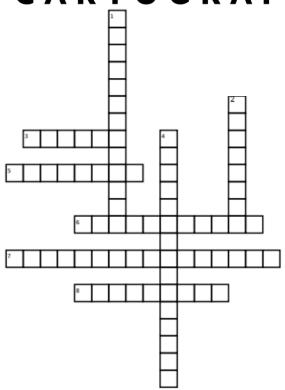




### EARTH SCIENCE WEEK EARTH MATERIALS IN OUR LIVES

**CROSSWORD CHALLENGE** 





Word Bank:

PRIME MERIDIAN CONTOUR INTERVAL TOPOGRAPHICAL MAP

LONGITUDE CONTOUR LINE ISOBAR

LATITUDE MERIDIAN

#### Across:

- The \_\_\_\_\_\_ is the line of longitude, designated as 0° and used as a reference line to measure, longitude west and east
- A line passing through the south pole and north pole, forming a circle.
- is the difference in heights of land surfaces between contour lines.

#### Down:

- A line drawn on a map which connects the points of equal pressures (high and low) is known as an \_\_\_\_\_\_.
- Imaginary horizontal lines on the Earth that run along the equator in both the hemispheres are known as \_\_\_\_\_\_\_.
- are the lines showing the places having the same height above sea level.
- is a type of large-scale map that represents both natural and man-made twodimensional, surface geographical features.
- These are the imaginary vertical lines running along the eastern and western hemisphere of the Earth, which are used to measure the distance, location, and time.



### Geauga County Maple Leaf



Chagrin Falls Intermediate School sixth-grader Clara Zabik recently received notice that she has been identified as an Earth Science Week 2020 Essay Contest Winner...

#### SIXTH-GRADER WINS ESSAY CONTEST

Chagrin Falls Intermediate School sixth-grader Clara Zabik recently received notice that she has been identified as an Earth Science Week 2020 Essay Contest Winner.

She entered this contest, open to students enrolled in grades 6-9, as one of the options presented within her English Language Arts (ELA) class in fall 2020. The essay topic was, "How We Process Earth Materials" and encouraged students to think about how we can develop practices and policies that allow us to derive practical value from raw materials while maintaining community values. The essay was required to be no more than 300 words and all essays were judged by a panel of geoscientists on grammar, content, presentation, creativity and relevance to and incorporation of the topic.

In her essay, Zabik identified composting as a positive way we can impact the Earth and thoughtfully

way we can impact the Earth and thoughtfully suggested ideas for others to think about relative to accessing locally-grown food. Her powerful and well-crafted essay challenged the reader to internalize her ideas and think about, "How will you use earth's gifts?"



"Congratulations to Clara for her willingness to pursue new challenges and for her outstanding achievement. The entire CFIS community is proud of her work!" said Principal Curtis Howell.

 $Clara\ has\ already\ expressed\ her\ gratitude\ to\ sixth-grade\ ELA\ teacher,\ Katherine\ Owen,\ for\ her\ support\ of\ Clara\ in\ these\ endeavors.$ 



# **Geauga News**

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## Chagrin Falls Intermediate School Sixth Grader Wins Earth Science Week 2020 Essay Contest

Jan 19, 2021 by Geauga News



Clara Zabik, a current sixth-grade student at Chagrin Falls Intermediate School, recently received notice that she has been identified as an Earth Science Week 2020 Essay Contest Winner. She entered this contest, open to students enrolled in grades 6-9, as one of the options presented within her English Language Arts (ELA) class in fall 2020. The essay topic was, "How We Process Earth Materials" and encouraged students to think about how we can develop practices and policies that allow us to derive practical value from raw materials while maintaining community values. The essay was required to be no more than 300 words and all essays were judged by a panel of geoscientists on grammar, content, presentation, creativity and relevance to and incorporation of the topic. In her essay, Zabik identified composting as a positive way we can impact the Earth and thoughtfully suggested ideas for others to think about relative to accessing

locally-grown food. Her powerful and well-crafted essay challenged the reader to internalize her ideas and think about, "How will you use earth's gifts?"

Zabik's essay can currently be found on the Earth Science Week website, under the "Essay" section. "Congratulations to Clara for her willingness to pursue new challenges and for her outstanding achievement. The entire CFIS community is proud of her work!" said Principal Curtis Howell, Chagrin Falls Intermediate School. Clara has already expressed her gratitude to sixth-grade ELA teacher, Katherine Owen, for her support of Clara in these endeavors

### Geocaching.com



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SEPTEMBER 29, 2020 / MEGAN TWAMLEY

## **New Souvenir: International** EarthCache Day 2020!

How do you best prepare for an EarthCache outing? You planet!

Learn more about Earth and how it formed through history on Saturday, October 10 and Sunday, October 11, 2020 in celebration of International EarthCache day! Earn the official souvenir for completing your research and receiving your smiley.

A whole weekend dedicated to conducting experiments live in the field, making observations and hypotheses, or learning about what once existed. Whether it's dinosaur footprints, the rock face of a mountain, or the Grand Canyon all non-Premium EarthCaches will be available in the Geocaching® app.

Share with your Friends:

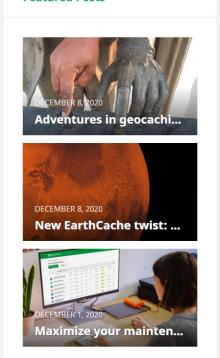






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#### **Featured Posts**

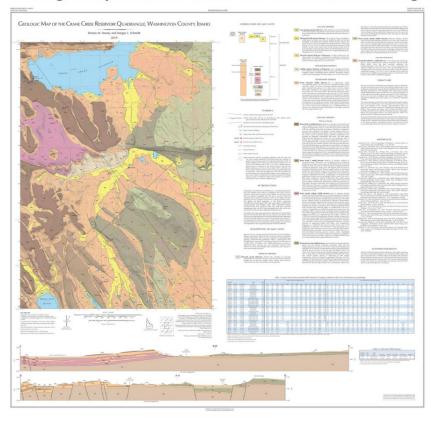


### Idaho Geological Survey



### Geologic Map Day | October 16, 2020

#### Geologic Map of the Crane Creek Reservoir Quadrangle, Washington County, Idaho



The geologic map of the Crane Creek Reservoir 7.5' quadrangle depicts the rock units exposed at the surface or underlying a thin cover of soil or colluvium. This map is a result of field work conducted in the summer and autumn of 2017 by the authors. This map is an indication of what the middle Miocene (13 to 16 Ma) in west-central Idaho would have looked like. The map area is dominated by sheet flow volcanic rocks of the Grande Ronde Formation, part of the larger Columbia River Basalt Group, and the more chemically diverse Weiser Volcanics. The Weiser Volcanics flows span the geochemical range from high silica rhyolite to mafic basalt. Coeval with the volcanic rocks is sand, silt, clay, and volcanic ashes of the Payette Formation.



Sequoia sp. fossil leaf imprints in a volcanic ash from the Crane Creek Reservoir 7.5' quadrangle.

Two high precision U-Pb zircon TIMS dates from volcanic ashes found in the Payette Formation help pinpoint the timing of events in the area. Crane Creek Reservoir is semi-arid terrain, the surficial deposits are dominated by reworked pebbles, sand, silt, and clay alluvial deposits of small to ephemeral streams and playa and lake deposits of the man-made Crane Creek and Paddock Valley reservoirs. Also depicted on the map is a wide network of mima mounds referred to here as patterned ground. The structure of the map area is predominated by northwest trending normal faults, however it bucks the trend of other maps produced in the area by revealing anomalous eastwest trending normal faults. There is no evidence of recent offset on any of the faults. This map is part of a larger regional study to understand the origin and evolution of the hydrocarbon deposits in southwest Idaho.

#### Idaho State Journal









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## ISU professor Finney among scientists addressing Idaho U.S. Senate staffers on climate change

By Idaho State University

Oct 19, 2020 Q 0





Bruce Finney Submitted photo





POCATELLO — Idaho State University's Bruce Finney, a professor of biological sciences and geosciences, was one of two representatives from the American Geophysical Union to meet and discuss climate change with staff members representing U.S. Sens. Mike Crapo and Jim Risch during Earth Science Week, Oct. 11 to 17.

"The meetings have gone well with much productive discussion," Finney said. "We appreciated the opportunity to speak with staff members from both of Idaho's Senate offices. It was great that (the) people we talked to were receptive to us."

The virtual meetings were part of the American Geophysical Union's annual Climate Change Advocacy Days that coincide with Earth Science Week. The American Geophysical Union is one of the largest organizations of Earth, atmospheric, ocean, hydrologic, space and planetary scientists, consisting of more than 130,000 members from 144 countries. AGU's activities are focused on the organization and dissemination of scientific information in the interdisciplinary and international fields within the Earth and space sciences. The organization's headquarters is in Washington, D.C.

### Independence Bulletin Journal

# BULLETIN JOURNAL

Monday, December 21, 2020

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## Fossil Fun Day is Oct. 14 at Boies Bend Area

Submitted Article Oct 3, 2020



Fossils like this one of a shell can be found in Buchanan County. Courtesy Photo

HAZLETON – On Wednesday, October 14, at 5 p.m., the Buchanan County Conservation Board is sponsoring Fossil Fun Day at Boies Bend Area, 2465 278th Street, Quasqueton. Take this great opportunity to explore an amazing Buchanan County Park while discovering lowa's paleontological past!

Have you wondered what was living in Iowa millions of years ago? You'll get an idea at this event!

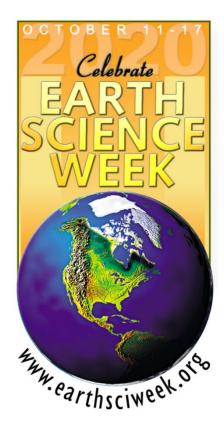
October 14 is National Fossil Day, so what better day to discover the plants and animals that existed in

### <u>IowaView</u>



#### AN OVERVIEW OF EARTH SCIENCE WEEK





#### Focus Days

Earth Science Week is happy to announce special days focusing on specific themes during the weeklong celebration, October 11 - 17, 2020.



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News and Events

COMING SOON – EARTH SCIENCE WEEK – OCT 11-17, 2020

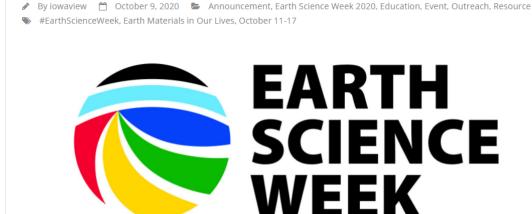
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#### TAG ARCHIVES: EARTH MATERIALS IN OUR LIVES



Next week is Earth Science Week. This year the theme is *Earth Materials in Our Lives*. Throughout the week we will be exploring different aspects of earth sciences, finding ways to connect to the earth, and looking at careers and organizations that are devoted to the study of our earth.



Check back all week for daily updates and ways to celebrate!

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# EARTH SCIENCE WEEK – DAY 1: INTERNATIONAL EARTHCACHE DAY

🖋 By iowaview 📋 October 11, 2020 🍃 Activity, Earth Science Week 2020, Education, Game

🐃 #EarthScienceWeek, CelebrateEarthScienceWeek, ESW Day 1, Geological Society of America, International Earthcache Day



Explore the world with this GPS scavenger hunt!

Earthcache is a special type of geocache designed to teach you about the geology of the area.

To get started check out the instructions provided by the The Geological Society of America.



An Overview of Earth Science Week

Earth Science Week – Day 2: Minerals Day >

#### LEAVE A REPLY

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Pioneers of Geography and GIS
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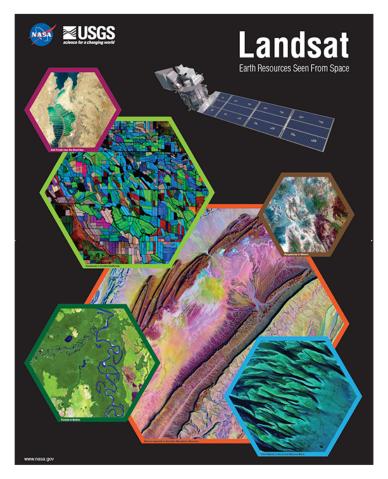
## EARTH SCIENCE WEEK – DAY 3: EARTH OBSERVATION DAY

- AmericaView, Earth Observation Day, Earth Science Week 2020, Education, Environmental Change, Game, Landsat, Resource
- \* #AmericaView, #EarthScienceWeek, #Landsat, #NASA, Earth Observation Day 2020, poster, Remote sensing

#### Happy Earth Observation Day!

Today we are celebrating remote sensing, the study of the earth using secondary observations from instruments such as planes, kites, drones, satellites as an exciting and powerful educational tool to help us show changes over time.

This year the AmericaView/NASA team has put together a fun and beautiful educational poster!



The front of the poster highlights the fantastic remote sensing work by the US satellite, Landsat. The 2020 Earth Observation Day poster promotes Landsat imagery from across the globe. The Landsat program has provided a continuous space-based record of the surface of the Earth since 1972. Every day, Landsat satellite imagery provides information to scientists, researchers, farmers, forest managers, policy makers, and many others that helps them make wise decisions about our resources and our environment.



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# EARTH SCIENCE WEEK – DAY 3: NO CHILD LEFT INSIDE DAY

- 🌶 By iowaview 📋 October 13, 2020 🖒 Activity, Earth Science Week 2020, Education, Event, Resource
- #EarthScienceWeek, ESW Day 3, Get outside, NoChildLeftInsideDay



Get outside today. Take a kid outside and enjoy the beautiful world around us.

Here are a list of suggested activities to help celebrate this day:

- How Can You Test Your Soil Grades 5-9
- Make Your Own Compass Grades 6-8
- Plant an Ozone Monitoring Garden Grades 6-9
- Sky and Cloud Windows Grades 3-8
- Soil Properties Grades 5-10
- Your Own Greenhouse Grades 3-5
- Earthquake on the Playground Grades 7-12
- Dig Into Soil Grades K-4
- Look Up! Observing Weather Grades K-4
- Streams and Water Quality Grades 9-12
- Be a Paleontologist! Grades 3-12
- Find Your Bearing: Mapping Grades 7-12
- Building Geology: Rock and Mineral Hunt Grades 6-12
- The Human Rock Cycle Grades K-5
- Writing Earth Science Grades K-12
- Earth Science Art Grades K-8

Check out the Earth Science Week No Child Left Inside webpage for additional resources and details.



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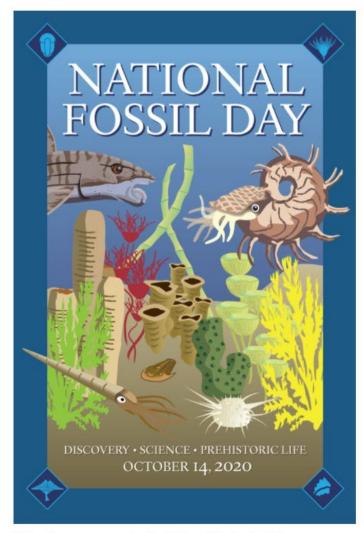
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# EARTH SCIENCE WEEK - DAY 4: NATIONAL FOSSIL DAY

🌶 By iowaview 📋 October 14, 2020 🝃 Earth Science Week 2020, Education, Outreach, Resource

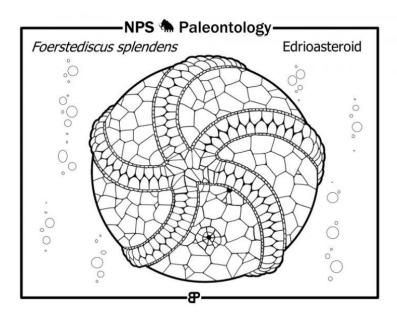
🐞 #EarthScienceWeek, #NationalFossilDay, Cedar Valley Rocks and Mineral Society, Crinoids, ESW Day 4, Fossil and Prairie Park Preserve, Fossil Coloring Book, National Park Service



https://www.nps.gov/subjects/fossilday/index.htm

Today we are celebrating National Fossil Day!

Check out this **cool coloring book** as well as **bonus pages**. Learn about ancient plants and creatures as you color your way through this booklet. *What is your favorite creature?* 



Geologic Resources Division Edrioasteroid

"Foerstediscus splendens" is an extinct echinoderm (a member of the group including sea stars, sea urchins, and sea lilies) known as an edrioasteroid (seated star) that lived during the Ordovician. Fossils of "Foerstediscus" have been found at Mississippi National River and Recreation Area, Minnesota.

Have you ever been fossil hunting? If you are interested in collecting fossils, you should plan an adventure to the <u>Fossil and Prairie Park Preserve</u> in Rockford, lowa. It gives you a chance to find your own fossils.



Images from https://cedarvalleyrockclub.org/crinoidsGilmoreCity.html

Did you know that lowa is only one of a handful of state's that doesn't have a state fossil? There is currently a proposal for the Crinoid to become lowa's State Fossil. Crinoids are a class of animals called echinoderms that first appears on the earth about 500 million years ago. They have two form, sea lilies (stalked form attached to the sea floor) and feather stars (free-living.) Learn more about the Crinoid at the Cedar Valley Rocks and Mineral Society website.

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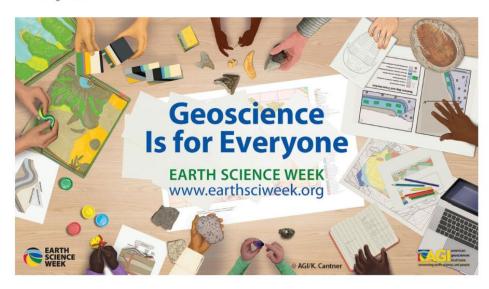
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# EARTH SCIENCE WEEK – DAY 5: GEOSCIENCE FOR EVERYONE DAY

Today we celebrate that the geosciences are for everyone.



Below are links to organizations focused on encouraging all people to get involved in the geosciences.

American Indian Science and Engineering Society (AISES)

Association for Women Geoscientists (AWG)

Earth Science Women's Network (ESWN)

International Association for Geoscience Diversity (IAGD)

National Association of Black Geoscientists (NABG)

National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)

Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

Women in Coastal Geoscience & Engineering

Women in GIS

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Happy GIS Day 2020! #GISDay

And now for something weird: Joseph Kerski's Weird Earth

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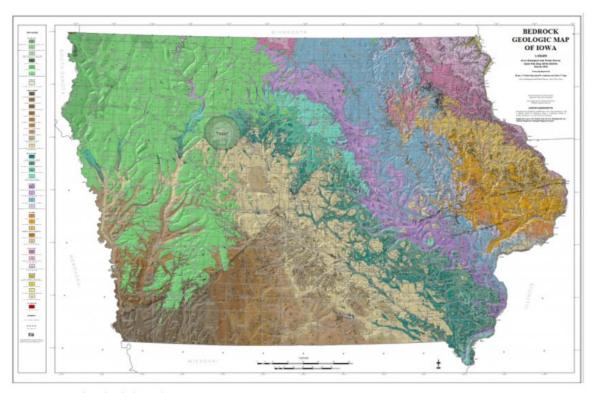
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### EARTH SCIENCE WEEK - DAY 6: GEOLOGIC MAP DAY

- 🌶 By iowaview 📋 October 16, 2020 🖒 Earth Science Week 2020, Education, Outreach
- \* #EarthScienceWeek, ESW Day 6, Gregg Hadish, Iowa Bedrock Map of Iowa, Iowa Geological and Water Survey, Iowa Landforms, Iowa Landforms Revealed

Today we are celebrating Geologic Map Day, to promote awareness of geologic mapping and its importance to society.

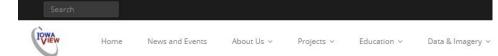
Here is a map of the **Bedrock Geologic Map of Iowa** created by a team at the Iowa Geological and Water Survey. <u>For details about each of the geologic regions click here to read the report</u>.



To view map details click on the map.

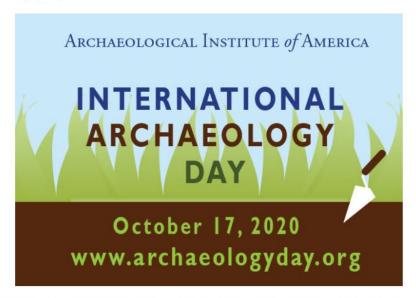
Which landform region are you living in?

Find your place on the map and learn more about each of the Iowa Landforms.



# EARTH SCIENCE WEEK – DAY 7: INTERNATIONAL ARCHAEOLOGY DAY

By iowaview Coctober 17, 2020 Activity, Earth Science Week 2020, Education, Observation, Outreach, Resource ##Earth Science Week, ##AD2020, Achill Island, ArchaeoDoodles, Archaeological Institute of America, Dig sites, International Archaeology Day, Pompeii



Today we finishing out Earth Science Week by celebrating International Archaeology Day.

Consider <u>exploring with archaeologists</u> in field by touring at their dig sites at locations such as <u>Pompeii, Italy</u> or <u>Achill Island, Ireland</u>.

Participate in the <u>ArchaeoDoodles Contest</u> by choosing one of 15 archaeological terms and create a graphic or doodle based on the term



### Izzit.org



# Earth Science Week October 11<sup>th</sup>-17<sup>th</sup>

Looking for materials to use for Earth Science Week that can be used online, in-person, or for at-home learning?

Check out our library below.

**Teaching Units** – Educational Videos with Full Teacher's Guides

# KALW Local Public Radio



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# Almanac - Wednesday 10/14/20

By KEVIN VANCE . OCT 14, 2020





Mourning Cloak butterfly back view, by flickr Mike Lewinski

Today is Wednesday, the 14th of October of 2020

It is the 288th day of the year.

78 days remain until the end of the year.

#### 68 days until winter begins

20 days until Tuesday November 3, 2020

The sun rises at 7:18 am

and sunset will be at 6:32 pm.

We will have 11 hours and 14 minutes of daylight.

The solar transit will be at 12:55 pm

The first low tide was at 3:53 am

The first high tide will be at 10:51 am

and the next low tide at 4:22 pm.

and the final high tide at Aquatic Park at 10:37 pm.

The Moon is 8.1% visible; a Waning Crescent

We'll have a New Moon on Friday October 16 at 12:31pm

Today is...

National Fossil Day

### KFYR News



# Minot Public School Board upholds locker policy amid pandemic



They started a petition which garnered more than 700 signatures. (KFYR) By Sasha Strong

Published: Oct. 9, 2020 at 3:23 PM EDT

#### $\Theta \times \Theta \square$

MINOT, N.D. – Leadership with Minot Public Schools said that they will continue to uphold locker policies, which prohibits the use of lockers.

Last month some parents of MPS students expressed concern over the rule after some students complained of shoulder and back pain from carrying their book bag to every class.

They started a petition which garnered more than 700 signatures.

Assistant Superintendent Kim Slotsve said they addressed the situation by sending those parents more information on how the policy will help reduce the chances of spreading COVID-19.

"That was part of our plan for safety for students which included eliminating high touch surfaces and places for students to gather," said Slotsve.

Slotsve also said teachers have been working with students to reduce the number of items they carry in their backpacks throughout the day.

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NEWS FIRST ALERT WEATHER SPORTS PROGRAMMING CONTESTS

NEWS

# Heartland museum celebrates International Archaeology Day & National Fossil Day



The Bollinger County Museum of Natural History in Marble Hill, Missouri will celebrate National Fossil Day and International Archaeology Day on Saturday, October 10 from 12:00 p.m. to 4:00 p.m. (Source: Petrified Forest National Park)



By Jessica Ladd | September 30, 2020 at 1:38 PM CDT - Updated September 30 at 1:52 PM



BOLLINGER COUNTY, Mo. (KFVS) - The Bollinger County Museum of Natural History in Marble Hill, Missouri will celebrate National Fossil Day and International Archaeology Day on Saturday, October 10 from 12:00 p.m. to 4:00 p.m.



Arrowhead Fred Bollinger will present a program on flint knapping at 1:00 pm.

There will be limited seating at this program.

Registration for the flint knapping demonstrations is required.

Bring your Native American relics or finds with you to the museum for Arrowhead Fred to identify.

Learn about the Missouri dinosaur discovery, see a small replica of the Missouri dinosaur, Hypsibema missouriense, and fossils similar to those found at the dinosaur dig site.

Children's activities include a children's fossil dig and fossil scavenger hunt.

Children may pick up a free archaeology/fossil activity kit to take home.

This architectural treasure is listed on the National Register of Historic Places.

Regular admission to the museum will apply.

All activities are free with your paid museum admission.

Face coverings and physical distance seating will apply to this event as well.

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FIRST ALERT WEATHER NEWS SPORTS PROGRAMMING CONTESTS

NEWS

# Bollinger County Museum of Natural History celebrates National Fossil Day and International Archaeology Day



Bollinger County Museum of Natural History celebrates National Fossil Day and International Archaeology Day



By Ashley Smith | October 10, 2020 at 4:03 PM CDT - Updated October 10 at 6:45 PM



BOLLINGER COUNTY, Mo. (KFVS) - The Bollinger County Museum of Natural History in Marble Hill, Missouri celebrated National Fossil Day and International Archaeology Day on Saturday, Oct. 10.



"Arrowhead" Fred Bollinger presented a program on flint knapping and helped Heartlanders identify their Native American relics.

There was a children's fossil dig and fossil scavenger hunt. Children could take one fossil, and a free archaeology/fossil activity kit.

Bollinger County Museum of Natural History is located at 209 Mayfield Drive in Marble Hill, MO.

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# Kids Out and About

# DENTERTAINMENTCALENDAR.COM

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**Change Region** 



Rochester's online guide to everything for kids, teens, & families!



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### International Archaeology Day at the RMSC

\*The event has already taken place on this date: Sat, 10/17/2020



The RMSC Museum and the Archaeological Institute of America's Rochester NY Society will present a familyfriendly introduction to archaeology in honor of International Archaeology Day.

Click Here For More Information About This Activity

### KOLD News 13



LOCAL NEWS BACK TO SCHOOL CORONAVIRUS WEATHER WATCH US

COMMUNITY

# Petrified Forest National Park visitors can interact with paleontologists during fossil labs once again

Two-way radios are used for communication back and forth between the lab window



Paleontologist Diana Boudreau works on carefully padding fossils of a phytosaur skeleton. (Source: Petrified Forest National Park)



By KOLD News 13 Staff | September 23, 2020 at 8:27 AM MST - Updated September 23 at 8:32 AM



TUCSON, Ariz. (KOLD News 13) -Petrified Forest National Park announced that park visitors can, once again, can talk with a park paleontologist while they work on fossils in the demonstration fossil laboratory.



The laboratory is currently viewable Thursday, Friday, and Saturday from 9 a.m. to 3 p.m. To ensure safety and social distancing, two-way radios are used for communication back and forth while the paleontologists and fossils are viewable through the laboratory window.

"The work that goes on inside the laboratory can be very exciting," paleontologist Diana Boudreau said. "The fossils come to us covered in rock, called matrix, so as we remove the matrix we are revealing the bones of an animal, or animals, that haven't been seen for millions of years".

Current projects in the laboratory include making sure each fossil is padded and carefully stored in the museum collection and cleaning and preparing fossils for study and display.

The laboratory will also be open Wednesday, Oct.14 for National Fossil Day.

Caption for image 1. Paleontologist Diana Boudreau works on carefully padding fossils of a phytosaur skeleton.

Caption for image number 2. Paleontologist Phil Varela uses a microscope and small scraping tools to remove matrix from part of a fossilized metoposaur breast plate.

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### **KSIS** Radio



f SHARE ON FACEBOOK SHARE ON TWITTER

Join the Department of Natural Resources in celebrating Earth Science Week and gain a better understanding and appreciation for earth sciences and engage in responsible stewardship of the Earth.

Events scheduled nationwide for Oct.11-17 will celebrate the theme "Earth Materials in Our Lives."

This year's event will focus on ways the Earth's materials impact humans – and the ways human activity impacts these materials – in the 21st century. Individuals of all backgrounds, ages and abilities are encouraged to engage with the geosciences, whether as a geoscience professional, a hobbyist or through civic engagement. Earth science is all around us. Go ahead – be a citizen scientist.

Focus days include:

Oct. 11 - International Earthcache Day

Oct. 12 - Minerals Day

Oct. 13 - Earth Observation Day and No Child Left Inside Day

Oct. 14 - National Fossil Day

Oct. 15 - The Great Central U.S. ShakeOut and Geoscience for Everyone Day

Oct. 16 - Geologic Map Day

Oct. 17 - International Archaeology Day

Earth Science Week contests are underway. Categories include photography, video, visual arts and essay. Enjoy a self-guided tour of the Ed Clark Museum of Missouri Geology, 111 Fairgrounds Road, Rolla. The museum is open weekdays from 8 a.m. to 5 p.m. Please call 573-368-2100 to schedule a time to visit the museum.

The Missouri State Museum, located in the State Capitol in Jefferson City, is also a wonderful venue where fossils are embedded in the limestone walls, floors and stairs of the building. Numerous exhibits about Missouri are available. Learn more about touring the Missouri State Museum online

at mostateparks.com/page/55179/capitol-tours.

For more information, visit dnr.mo.gov/geology/activities.htm.

### **KX** News



**GOOD DAY DAKOTA** 

# NATIONAL DAY CALENDAR: National Fossil Day



Posted: Oct 14, 2020 / 07:07 AM CDT / Updated: Oct 14, 2020 / 07:07 AM CDT

Welcome to October 14th on the National Day Calendar.

The search for fossils is an ongoing treasure hunt and their discovery both inspires and informs us. They often reveal missing links between our modern world and life on earth billions of years ago.

The best way to preserve this link is by naming them something that will stick in our minds instead of boring old Latin names that get left on a shelf. Here are some of the more memorable. The fossil of a 15 million year old snake with giant teeth: Montypythonoides riversleighensis. And how about the extinct moth named Carmenelectra shechisme.

On National Fossil Day dig up some cool facts of your own about the weird science that continues to teach us from the dust.

Today we also celebrate National Bring Your Teddy Bear to Work/School Day, National Emergency Nurse's Day, National Stop Bullying Day, National Dessert Day, and Be Ball and Be Free Day.

### KY3



News Weather Sports Ozarks Sports Zone On Your Side Back To School The Place beLocal/Marketplace Livestream

# The Great Shakeout: Experts share the risks for earthquakes in the Ozarks

Greene County has around 20 fault lines

By Leah Hill

Published: Oct. 14, 2020 at 10:28 PM EDT



SPRINGFIELD, Mo. (KY3) -

While geologists cannot yet predict earthquakes, they want you to know the threat for them is real. With this week being Earth Science Week, it is important to recognize the risk for earthquakes here in the Ozarks.

Matt Forir, a Geologist with Greene County, said the Ozarks are full of fault lines.

"You can see there really isn't a part of the county that is not somewhat close to a fault," Forir said.

Greene County has around 20 fault lines, more are being discovered. The most visible fault is located by the Ozarks Watershed.

These fault lines across the Ozarks are inactive.

"They don't have microquakes, there are no movements along those," Forir said.

These inactive faults are not concerning geologists, what is a concern is the fault line in New Madrid.

When New Madrid happens, all bets are off," Forir said.

Geologists do not know how a major earthquake in New Madrid will impact the faults in southwest Missouri. He said studies are being done to determine if they will become active after another major earthquake.

"We're still trying to figure out how active they become when New Madrid has some rumbling," Forir said.

What he does know, is the seismic waves will reach us here, and the damages will also be devastating.

Major damage to roads, and buildings here because nothing is built to earthquake standards," Forir said.

Historically New Madrid has major earthquakes every 600 years. The Last major earthquake was 200 years ago. Forir said he does not expect one to happen in our lifetime.

With this week being Earth Science Week, he is warning people to have a plan and research the risk, and come up with a plan.

"Take a little time, do a little research, and realize how the earth works," Forir said. Copyright 2020 KY3. All rights reserved.

# FIRST ALERT - It's Earth Science Week - Here's how you can celebrate

A week dedicated to promoting understanding of the earth



Earth Science Week (KYTV)

By Leah Hill

Published: Oct. 16, 2020 at 5:02 PM EDT



SPRINGFIELD, Mo. (KY3) - Saturday marks the final day of Earth Science Week. It's a week dedicated to promoting understanding of the earth and all its processes.

Earth Science is an integrated science composed of oceanography, geology, astronomy, and meteorology.

We live on this amazing planet, and yet we know very little about the science behind it, which is why Earth Science Week is so important.

Since 1998, the American Geosciences Institute has organized this annual awareness campaign. This year's theme was "Earth's Materials in Our Lives." Focusing on proper stewardship of our planet, and a greater understanding of the materials we use day to day.

### Lake Superior Magazine

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# The Marquette Regional History Center presents: Archaeology Bingo Scavenger Hunt

Oct 1, 2020 to Oct 30, 2020

Marquette Regional History Center 145 W. Spring Street, Marquette, Michigan 49855











The Marquette Regional History Center presents:

Archaeology Bingo Scavenger Hunt

We're yelling "Bingo!" across Marquette County!

This year is the 10th anniversary of International Archaeology Day. Out of thousands of participants, Marquette Regional History Center is thrilled to be one of 45 world-wide Long Term Collaborators listed by the Archaeological Institute of America.

Yet, this year, keeping our community safe means we can't hold our fair. So we're challenging you to become a community archaeologist with MRHC Archaeological Bingo! Each space on your Bingo card has an archaeological challenge for you to complete. Complete five in a row and you have a Bingo, along with a chance to win great prizes. You can complete any or all rows on your card for more chances to win, and discover archaeology in your own backyard and beyond.

Marquette Archaeology Bingo is great for families or individuals across a broad range of ages. You can turn in entries physically, virtually, or both. The game runs throughout the month of October and will require you to go outside.

15 purchases a bingo card, one day museum admission for those in your household participating, and a prize! Game runs October 1-30, 2020.

This program is supported in part by the Community Foundation of Marquette County.

To participate:

Come to the MRHC between October 1-25 to join and start your bingo game. Curbside bingo card pick up also available. For a virtual bingo card go to marquettehistory.org and join the game.

#### Info

Location

Marquette Regional History Center 145 W. Spring Street, Marquette, Michigan 49855

**Event Type** 

Education & Learning, History, Kids & Family

Website

Visit Event Website

**Phone** 9062263571

jbays@marquettehistory.org

Date & Time

Oct 1, 2020 9:00 AM to Oct 30, 2020 9:00 PM +

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### **Take-out STEM Activities**

Museum offers kits for youngsters



Posted Tuesday, September 29, 2020 3:17 pm

The Las Cruces Museum of Nature & Science continues to offer take out activity kits in October. Kits are free but require reservation. To reserve kits please contact Stephanie at shawkins@las-cruces.org or call 575-522-3120. Kits are available while supplies last. Pursuant to state health guidelines, social distancing measures will be in place and mask-wearing is required.

September 30 "Saturday Family Science - Be a Color Chemist!"

Be a color chemist with this *GSK Science in the Summer* hands-on experiment. See how many colors you can create with natural pigments. Recommended ages 7 and up. This kit will be accompanied by a live demonstration on Zoom Saturday, October 3 at 10am.

October 7 "Nature & Science Discovery Pre-K"

Learn about our local night flyers – owls and bats – with the Nature Kids pack! The kit will include materials for two nature-themed activities. Recommended for ages 2-5. This program will be accompanied by a video at www.facebook.com/lcmuseums on October 8 and 22.

October 14 "National Fossil Day"

Celebrate Earth Science Week and National Fossil Day with the Museum of Nature & Science and the Bureau of Land Management Las Cruces Office. Pick up a Fossil Day gift bag with posters, stickers, and Junior Ranger activities to do at home. No registration necessary; available while supplies last from 10am to 1pm.

October 21 – "STEAMpunk – Be a Materials Chemist!"

Be a materials chemist with this *GSK Science in the Summer* hands-on experiment. Design the stretchiest, gooiest, grossest slime you can! Recommended ages 7 and up. This kit will be accompanied by a live demonstration on Zoom Saturday, October 24 at 10am.

October 28 "Tree Identification" – Take a nature walk in your neighborhood and learn how to identify the trees around you with the help of an interactive guide. Recommended for all ages. Limit 1 per household.

The Museum of Nature & Science is located at 411 N. Main Street and is accessible from RoadRUNNER Transit Route 1 Stop 36. For additional information, visit the website at: http://las-cruces.org/museums or follow us on Facebook and Instagram @LCMuseums. The museum is currently open by reservation only. To reserve a time to visit the galleries, email education@las-cruces.org or call 575.522.3120.

## Marion County News









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### Free Earth Week teacher toolkit available from TDEC



By Submitted Material | on September 18, 2020

Nashville, Tenn. - The Tennessee Department of Environment and Conservation (TDEC), in partnership with the American Geosciences Institute, will distribute a limited number of Earth Science Week toolkits to science teachers across the state as part of Earth Science Week Oct.

"We are pleased we can offer teachers across our state helpful materials to use for Earth Science Week," TDEC Commissioner David Salyers said. "We want students to be fascinated by this important field of study, and we are glad TDEC can play a role in this effort."

The 2020 Earth Science Week theme is "Earth Materials in Our Lives," which will focus on ways Earth materials impact humans - and the ways human activity impacts these materials - in the 21st Century. The theme will promote public understanding of geoscience and stewardship of the planet, especially in terms of these raw materials. The Earth system includes various rock, fluid, gaseous and mineral materials - many of which are nonrenewable resources in limited supply - that individuals and societies use to live and thrive.

Special items in the toolkit include NASA materials on water science and a poster on agriculture, a Geologic Map Day poster dealing with Earth materials, a hydrology flyer from the Nutrients for Life Foundation, National Science Foundation worksheets on rocks and water, and various learning activities.

Each year Earth Science Week reaches more than 50 million people across the country and around the world. Individuals and groups will celebrate Earth Science Week by participating in events in all 50 states and several other countries.

Educators interested in receiving an Earth Science Week toolkit may contact Ron Zurawski at Ronald.Zurawski@tn.gov or (615) 532-1502. The toolkits are free of charge while supplies last.

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### <u>mBlip</u>



# National Fossil Day Livestream!

/ October 14, 2020

From PBS Eons



Our "Night at the Virtual Museum" livestream will now be streaming on both YouTube and Facebook.

To celebrate National Fossil Day, PBS Eons hosts Kallie Moore, Blake de Pastino, and Michelle Barboza-Ramirez will be competing in a virtual scavenger hunt at the Smithsonian NMNH's Deep Time exhibit, where their fossil knowledge will be put to the test by Smithsonian paleontologist, Dr. Matthew Carrano.

Join us on Wednesday at 8P ET to see which of our hosts will be crowned Champion of Deep Time!

And feel free to explore the virtual exhibit and search for clues alongside them! You can find it here:  $\underline{ https://naturalhistory2.si.edu/vt3/NMNH/z\_tour-022.html} \, \underline{ the search for clues alongside them! You can find it here: <math display="block"> \underline{ https://naturalhistory2.si.edu/vt3/NMNH/z\_tour-022.html} \, \underline{ the search for clues alongside them! You can find it here: <math display="block"> \underline{ https://naturalhistory2.si.edu/vt3/NMNH/z\_tour-022.html} \, \underline{ the search for clues alongside them! You can find it here: <math display="block"> \underline{ https://naturalhistory2.si.edu/vt3/NMNH/z\_tour-022.html} \, \underline{ the search for clues alongside them! }$ 

Produced in collaboration with PBS Digital Studios and the Smithsonian National Museum of Natural History!

Special thanks to everyone at the Smithsonian, especially our MC Dr. Matthew Carrano, and our Eons team.

Super special thanks to the following Patreon patrons for helping make Eons possible:

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### **MENAFN**





# Sharjah Archaeology Authority celebrates the International Archaeology Day











(MENAFN - Editorial) Sharjah, 17th October 2020: The Sharjah Archaeology Authority recently organized a large scale program to mark the annual International Archaeological Day, on 17th October, which included field visits to several archaeological sites and media tours of Jebel Buhais and Mleiha. The program also included a virtual lecture delivered via Zoom, presented by Eisa Yousif, Director of the Department Archaeology at the Sharjah Archaeology Authority, entitled "The Pioneering Role of Archaeological Findings in the Emirate of Sharjah", which targeted employees of local and federal government institutions, specialists of archaeology and media representatives.

The tour included a visit to Jebel Al-Buhais, which contains more than 600 structures dating back through various periods. Excavations in cooperation with a German mission provided more evidence of settlement in that period with signs of animal domestication and living life. A large group of pearl beads were found, and were unique to the Mleiha area, in addition to this, the group visited the Mleiha Archaeology Center and reviewed the interactive displays and archaeology displays to understand more about the environment.

## Missouri Department of Natural Resources



### **DNR News Release**

n News » 2020 » Celebrate Earth Science Week Oct. 11-17, 2020

#### FOR IMMEDIATE RELEASE

September 17, 2020

**Contact: Communications Office** 

573-751-1010

communications@dnr.mo.gov

### Celebrate Earth Science Week Oct. 11-17, 2020

JEFFERSON CITY, MO, SEPT. 17, 2020 – Join the Department of Natural Resources in celebrating Earth Science Week and gain a better understanding and appreciation for earth sciences and engage in responsible stewardship of the Earth.

Events scheduled nationwide for Oct.11-17 will celebrate the theme "Earth Materials in Our Lives." This year's event will focus on ways the Earth's materials impact humans – and the ways human activity impacts these materials – in the 21st century. Individuals of all backgrounds, ages and abilities are encouraged to engage with the geosciences, whether as a geoscience professional, a hobbyist or through civic engagement. Earth science is all around us. Go ahead – be a citizen scientist!

#### Focus days include:

Oct. 11 – International Earthcache Day

Oct. 12 - Minerals Day

Oct. 13 - Earth Observation Day and No Child Left Inside Day

Oct. 14 - National Fossil Day

Oct. 15 – The Great Central U.S. ShakeOut and Geoscience for Everyone Day

Oct. 16 – Geologic Map Day

Oct. 17 – International Archaeology Day

Earth Science Week contests are underway. Categories include photography, video, visual arts and essay. Enjoy a self-guided tour of the Ed Clark Museum of Missouri Geology, 111 Fairgrounds Road, Rolla. The museum is open weekdays from 8 a.m. to 5 p.m. Please call 573-368-2100 to schedule a time to visit the museum. The Missouri State Museum, located in the State Capitol in Jefferson City, is also a wonderful venue where fossils are embedded in the limestone walls, floors and stairs of the building. Numerous exhibits about Missouri are available. Learn more about touring the Missouri State Museum online at **mostateparks.com/page/55179/capitol-tours**.

For more information, visit dnr.mo.gov/geology/activities.htm.

### Missouri State

# Missouri State Log in A-Z Search

# Geography, Geology and Planning Blog

# Dr. Gary Michelfelder shares his insight about Earth Science Week

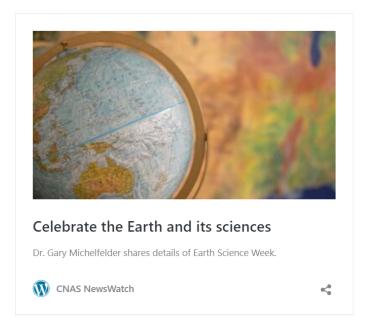
A CNAS Blog contribution by GGP Associate Professor

October 13, 2020 by Tracy Carroll

October 16: Geologic Map Day

October 17: International Archaeology Day

Have a great weekend!



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### Murfreesboro Voice



### Murfreesboro Mama: 15 Cool Things at TN STEAM Festival, October 9-18

**OCT 09, 2020 AT 09:00 AM BY LAURA BETH PAYNE** 

If we've all learned one thing this year, it's that there's always more to learn! This year's Tennessee STEAM Festival is all about learning in the time of Corona, and there's something for everyone.

Head to <u>trusteam.org</u> and find the dizzying array of both virtual and hands-on workshops happening across the state for kids and adults—from scavenger hunts to ballets to hiking maps. Founded by our own Discovery Center, it's a full-on celebration of the creativity and curiosity that fuels research and discovery, even in a pandemic.

I've already found 15 events that have me chatting up friends; events that made me go WOW. But by no means stop at that number! There are dozens of fascinating opportunities to take advantage of--many free or at a minimal cost. Peruse the full listing on the website and plot your visits (online or in person). It's going to be an awesome nine days of learning!

#### 13. The Parthenon: International Archaeology Day -- Oct. 17



Dig in as the Parthenon celebrates International Archaeology Day on Oct. 17 from 9 a.m.-12 p.m. with a variety of family-friendly activities about archaeology and ancient Greek culture from real archaeologists. Families can complete archaeologist stations to earn an "Official Archaeologist of the Nashville Parthenon" badge. Museum rates apply. Mention TN STEAM Festival for \$1.00 off each ticket.

# Naperville Park District





### To celebrate National Fossil Day let's learn about our state fossil - the Tully Monster!

- The Tully Monster was a soft-bodied animal that lived about 300 million years ago.
- At that time Illinois was closer to the equator and covered with dense marshes and a shallow sea.
- Scientists think the Tully Monster swam around and hunted for food, like shrimp and jellyfish.
- Tullimonstrum gregarium fossils have only been found in the Mazon Creek area in Illinois.
- Soft-bodied animals decay quickly and don't usually fossilize, but these animals must have been quickly buried slowing the decompostion process

Learn more about our state fossil here.

Particpate in National Fossil Day events and activities here.









### National Day Calendar



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October 14, 2020 -



#### NATIONAL FOSSIL DAY™

National Fossil Day promotes the scientific and educational value fossils present to us every day. Not only that, they're just cool! The observance takes place annually on Wednesday of the second full week in October.

All around the world, paleontologists seek and identify the remnants of animals, insects and plant life that once lived and grew on the earth. Some of these creatures lived hundreds, thousands and millions of years ago. These fossils leave a record that provides clues to the Earth's history.

From the microscopic fossils of an arthropod to the gigantic titanosaur, humans continue to be fascinated with fossils. The idea of discovering something embedded in ancient sediment motivates some to keep digging. Paleontologists identify fossils much like biologists identify the discovery of a new species of animal or plant life. They classify, name and organize fossils based on their characteristics.

In the scientific world, the scientist who makes the discovery also earns the naming rights. Frequently, the names are entirely scientific, using Latin or Greek roots. However, paleontologists enjoy being creative. For example, fourteen-year-old Wes Linster discovered *Bambiraptor Feinbergi* in 1993. The name means Bambi thief. Some scientists name their discoveries after living people. In the case of one trilobite that made it into the record books, the name *Aegrotocatellus jaggeri* comes the rock legend, Mick Jagger.

While fossils were real living beings, the mystery and magic of fossils cannot be overlooked. One of the latest additions to the fossil library reminds us of that. Its name, *Dracorex hogwartsia*, honors the Hogwarts family.

#### **HOW TO OBSERVE #NationalFossilDay**

Visit a local museum, or do some research about fossils. Attend an event or sponsor one. While you're out discovering the world of fossils, tell us about your favorites. Let us know by using #NationalFossilDay to post on social media.

Do you want to discover even more about fossils? We share with you 5 Fantastic First Fossil Discoveries. You can also visit the National Day Calendar Classroom for project ideas and resources that help you Celebrate Every Day in the classroom.

### **NATIONAL FOSSIL DAY HISTORY**

On October 13, 2010, the first National Fossil Day launched across the country during Earth Science Week to celebrate the educational and scientific value fossils provide. The National Park Service and over 270 partners hosted events across the United States, allowing the public opportunities to learn more about the world's fossil heritage. The partners include museums, institutions, organizations, and many other groups.

Each year the sponsors create a new National Fossil Day logo depicting a prehistoric organism. The logos promote National Fossil Day and provide educational opportunities to share more information about fossils. The original National Fossil Day logo was created in 2010 and featured a fossil mammal known as the titanothere. Other featured fossils include:

- 2011, the marine reptile known as the mosasaur was used as the official logo.
- 2012, the mammoth was featured in the annual logo.
- 2013, a Paleozoic invertebrate known as the eurypterid was highlighted in the annual logo.

# National Park Service



National Park Service

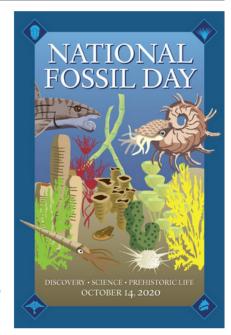
Series: National Fossil Day Logo and Artwork – Prehistoric Life Illustrated

## Fossils of the 2020 National Fossil Day Artwork

ON THIS PAGE V

### Guadalupe and Glass Mountains: 270 Million Year Old Fossil Reef

The 2020 National Fossil Day Logo is inspired by the rich diversity of Permian marine fossils found at the Guadalupe Mountains and Glass Mountains of west Texas and New Mexico. The Permian Period (299 to 252 million years ago) represents the last geologic period of the Paleozoic Era, which ended with a massive extinction event at the boundary marking the end of the Permian and the beginning of the Triassic Period and the Mesozoic Era. During this extinction event approximately 96% of marine species and 70% of terrestrial vertebrate species went extinct. However, the Permian rocks and fossils preserved at Guadalupe Mountains National Park



predate this extinction event and shows that a rich tropical reef system once occurred in west Texas and southeastern New Mexico approximately 270 million years ago.

Guadalupe Mountains National Park was established on September 30<sup>th</sup>, 1972 and incorporates 86,367 acres near El Paso, Texas. The park's name comes from the Guadalupe Mountains, which are found in western Texas and southeastern New Mexico, and also contain Carlsbad Cavern National Park. Guadalupe Mountains National Park includes Guadalupe Peak, which at 8749 feet in height is the highest point in the state of Texas, and El Capitan, an important geographical feature for travelers of the Butterfield Overland Mail stagecoach line during the late 1800s. These features of the Guadalupe Mountains are composed primarily of fossil-rich Permian limestones. In fact, there are so many fossils in the mountains that the middle part of the Permian is called the Guadalupian.



Guadalupe National Park, Texas.

# A Permian Reef: A Home for Animals, Built by Animals

If asked to picture a reef, many people would picture in their mind the Great Barrier Reef off the coast of northeaster Australia. Today, the Great Barrier Reef is the world's largest coral reef system. The structure of this reef is made up primarily of billions of coral polyps, a group of filter-feeding invertebrate animals that secrete a hard exoskeleton. These exoskeletons are built up in the billions to form massive structures that in turn become the base for other organisms to live around.



Permish Reaf exhibit at the Smithsonian Museum in Washington, D.C.

The record of the 270-million-year-old ancient reef system preserved in the Guadalupe Mountains shows that this reef was also made up of colonies of invertebrate animals, invertebrates are animals that do not have the internal structures that form a backbone and frequently form external skeletal structures made of calcium carbonate, invertebrate animals include corals, sponges, bryozoans, mollusks, worms, arthropods, and jellyfish. However, unlike the Great Barrier Reef which is made primarily of corals, the Permian reef was made by a diversity of other invertebrate animals.

Fossils of Permian corals are preserved in the Guadalupe Mountains and Glass Mountains, but instead of massive colonies, they consisted of single polyps that formed solitary horn-like structures or small colonies that formed small wasp-nest-like colonies. Another group of colonial invertebrate animals found here are bryozoans, which form net-like structures and use ciliated tentacles to sweep water for food particles. Sponge fossils are also well-known from the Permian rocks, with more than sixty species recognized. These are animals that have tube-like to bag-like to flattened bodies and filter food through special pores. Bivalved animals such as clams and brachlopods were dominant components of the ancient reef. Brachlopods in particular are very common at the park and formed massive shell reef beds. Some of the largest species, like the one shown in this year's National Fossil Day artwork, had specialized spines covering the shell that doubled as protection and as anchors into the sea floor. Unlike clams and their relatives, most brachlopods have a special stalk that attaches to the substrate.

Crinoids, also known as sea illies, were another major component of the Permian fossil reef system.

Crinoids are echinoderms and are related to sea stars and sea urchins, but differ in having a long stalk and a builb-like structure called a calyx, with many tentacle-like arms. Crinoids use these arms to bring food particles to their mouths which is at the center of the calyx. Fossils of arthropods (crustaceans, insects, arachnids, etc.) are rare but do occur in the Guadalupe Mountains. Of the arthropods, only trilobites are known from the park. Early in the Paleozoic Era, trilobites were a common component from many marine fossil sites. However, by the Permian trilobites were not as common as other arthropods and are rare at most marine sites. Though invertebrate animals make up a major portion of the fossils of the ancient reef, there is also evidence of complex algae, a photosynthetic plant-like organism. The fossils from the park suggest the algae were plant-like with leaf-like and stem-like structures similar to modern kelp.

### Shells and Tentacles: The Cephalopods

Free-moving swimming predators such as fish and cephalopods also inhabited the Permian reef. Cephalopods are a group of invertebrates that include octopi and squids which primarily are soft bodied, have multiple tentacles around their oral opening, and use a siphon to propel themselves through the water. During the Permian there were a number of cephalogod species, and many had chambered external shells similar to the modern nautilus. At Guadalupe Mountains National Park, two major groups of shelled cephalopods are known; the ammonoids and the nautiloids. The ammonoids are a well-known group of cephalopods that evolved in the middle Paleozoic Era and survived to the very end of the Mesozoic Era. approximately 66 million years ago. The shells of ammonoids can be either colled or straight in shape, but the colled form is more common in Permian rocks. Ammonolds are used extensively by geologists and paleontologists to determine approximate ages of marine sediments around the world because of their abundance and diversity in the fossil record. The nautiloids are another well-known group of shelled cephalopods and are represented today by six species living in the deep waters of the indo-Pacific oceans. Our 2020 National Fossii Day artwork depicts two types of nautiloids from Guadalupe Mountains National Park. The elaborate colled nautiloid Cooperoceras is known from the Lower Permian of North America and Europe and bears paired recurved hollow spines along the outer coll. Cooperoceras was probably a slowmoving predator that kept close to the reef to look for prey and used the reef and its spines for protection from larger predators. The other nautiloid depicted has a shell type known as orthoconic, meaning the shell has a long, straight, cone-like form. Orthocones were probably fast-moving predators like modern squids and cuttlefish.



Juvenile Helicogrion tooth whori collected at Guadaluge Mountains National Park

### Jaws of the Reef: Sharks and Whorl-toothed Ratfish

The cephalopods of the Permian reef were some of the more common invertebrate predators of their day in the Guadalupe Mountains. Fossil evidence of vertebrates, such as fish, are not well understood from the Permian sediments at this time. However, a group of scientists have produced the remains of small sharks and bony fish from sediment samples taken from the rocks in and around Guadalupe Mountains National Park. Most of their shark fossils represent very small species of primitive sharks, including representatives of the modern shark lineage. A single tooth whorl of a juvenile Helicoprion was collected at Guadalupe Mountains National Park. Helicoprion was a cartilaginous fish that was a close relative of the modern ratfish lineage. Ratfish have been found as fossils going back to the Devonian Period (365 million years ago) and are still allive today in the deep waters of the world's ocean. Helicoprion had a very specialized single tooth in the lower jaw. This single tooth was continuously growing from a whorl-like tooth root which developed multiple blade-like crowns that do not shed. This is unlike modern sharks which shed their teeth continuously throughout their lives. Paleontologists have theorized that Helicoprion may have specialized in feeding on cephalopods like the ammonoids and nautiloids, using its blade-like tooth whorl to crimp out the soft portion of the cephalopod (the head and tentacles) from the shell. Helicoprion went extinct by the end of the Permian but some of its relatives survived into the early Triassic.



### Art Contest 2020

#### About the Contest

The National Park Service and National Fossil Day partners are sponsoring an art contest to celebrate the 11th annual National Fossil Day. The 2020 National Fossil Day celebration is scheduled for Wednesday, October 14, 2020, during Earth Science Week. The theme for this year's art contest is: "Life of the Paleozoic Oceans!" For this theme we would like contest participants depict aquatic organisms from the Paleozoic oceans, particularly those found in the United States of America. The Paleozoic era (541 to 250 million years ago) was the earliest of



the three geologic eras with diverse life, and is subdivided into six geologic periods: the Cambrian, Ordovician, Silurian, Devonian, Carboniferous, and Permian. The 2020 National Fossil Day logo features a wide variety of sea creatures that formed and lived within a 270 million year old Permian Reef from Glass Mountains and Guadalupe Mountains of Texas and New Mexico.

Please see below for contest guidelines.

Click here to download the art contest entry form.

#### Contest Guidelines

#### Who can enter?

The contest is open to any interested person, of all ages. Entries will be judged based on originality, creativity, and how well the submission addresses this year's contest theme. You must be a resident of the United States to enter.

#### VVhat should my artwork include?

Your artwork should focus on the art contest theme "Life of the Paleozoic Oceans," and include some aquatic organism from the Paleozoic period. Art focusing on Land animals from the Paleozoic period or any animal from the Mesozoic and Cenozoic will not be considered for judging for the art period.

The Paleozoic Era is a large expanse of time! Many amazing aquatic creatures evolved and lived during this chunk of time, glving artist a variety of subjects to choose from. For example, during the Cambrian period, the diversity of life exploded, especially with invertebrate animals, many of which were weird and wonderful. Creatures such as trilobites were some of the first arthropods to evolve and they lived well to the end of the Paleozoic. Arthropod-like animals such as Anomalocaris and Opabinia looked like invading allens from another world, but are from this planet 540 million years ago and were some of the earliest predators. The Ordovician and Silurian saw massive arthropods called Eurypterids ("sea scorpions") that lived in the shallow seas and the early rivers of our planet and hunted trilobites and early fish.

Other invertebrates that flourished in the Paleozoic were the cephalopods (squids and relatives) which many evolved elaborate shells. Some, like Cooperoceras (featured in this year's logo) had elaborate spines on its colled shell, while others like the glant Cameroceras, had a straight shell but reached the length of a school bus!

The Paleozoic is also sometimes called the age of fishes, the first group of back-boned animals, which first appeared during the Cambrian period. These include a group called the agnathans or "jawless fishes" which include todays living lampreys and hagflish but were very diverse during the early Paleozoic with some, like the heterostracans, looked like darts with fish talls. There were also Placoderms, the first jawed fishes, which include the glant Dunkleosteous that had a powerful crushing bite! Sharks also first appeared during the Paleozoic with some very weird species evolving during the Devonian, Carboniferous, and Permian. Some sharks like the ctenacanths, were the first sharks to reach large size. Other sharks, like the xenacanths, were the first sharks to live in fresh water. Sharks like Helicoprion even had a single buzz-saw like tooth in its lower jaw to cut up prey! The first boney fish evolved during the Silurian and diversified during the Devonian which include some types still alive today like lungfish and coelacanths.

Lastly, the first tetrapods (vertebrate animals with four limbs) first evolved in aquatic habitats and had to spend most of their lives in water. These include creatures such as rhizodonts that were giant freshwater predators and the first amphibian-like fishes that evolved traits to move close to shore such as Tiktaalik, Ichthyostega, and Acanthostega.

The artwork can be in the form of a photograph (black & white or color), a painting, a drawing, or a sketch. All artwork must be 2D and flat.

#### Questions to help you get started...

What are some of the most unusual aquatic creatures of the Paleozolc? Where do these Paleozolc aquatic creatures live? Did they live in deep ocean waters, along shallow coast-lines, up river channels, or in ancient lakes? What environments did they live in? What is your favorite fossil sites and do they include aquatic Paleozolc fossils? How are fossils preserved? What do Paleozolc fossils look like?

**National Park Service** 

**Q** SEARCH

**MENU** 



★ SPECIAL EVENT

#### LOWELL NATIONAL HISTORICAL PARK

# International Archaeology Day Walking Tour

This event has already occurred. This page is provided for reference only.

- (\$) FEE: FREE.
- LOCATION: Boott Cotton Mills Museum (115 John Street)

DATES & TIMES

**TYPE OF EVENT** 

Date: Saturday, October 17, 2020 **Guided Tour** 

Time: 11:00 AM Walk

**Duration:** 1 hour and 30 minutes

#### (i) DESCRIPTION

Saturday, October 17, LNHP observes International Archaeology Day with a guided tour of the historic Boott Cotton Mills site. The tour will assemble at 11:00 am, in front of the Boott Museum at 115 John Street. Attendance will be limited to 12 people; social distancing and face coverings are recommended. Advance registration is recommended.

### **☑** RESERVATION OR REGISTRATION: YES

Call 978-970-5000 to reserve your spot. Space is limited to 25 participants.

#### **CONTACT INFORMATION**

Lowell National Historical Park 978-970-5000



**Q** SEARCH

**■**MENU

### **HOT SPRINGS NATIONAL PARK**

# International Archaeology Day Exhibit

This event has already occurred. This page is provided for reference only.

(\$) FEE: FREE.

**UDATES & TIMES** 

TYPE OF EVENT

Date: Saturday, October 17, 2020

Children's Program
Exhibition/Show

**Time:** 9:00 AM

**Duration:** 8 hours

### (i) DESCRIPTION

Stop by the Fordyce Visitor Center to view an archaeological collection from Hot Springs National Park. You'll also have the chance to earn an Archaeology Junior Ranger patch!

### **RESERVATION OR REGISTRATION: NO**

Tags: archaeology midwest national parks



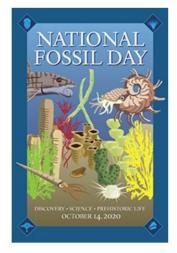
**NEWS RELEASE** 

# National Parks Dig into National Fossil Day on October 14

Significant Discoveries Revealed in Two National Parks

Date: October 14, 2020

Contact: NewsMedia@nps.gov



National Fossil Day 2020 logo

NPS Photo

Fossils, fossils! Whether you're a fan of sharks, prehistoric footprints, or other ancient animals and plants, the National Park Service has fossils for you, including a couple of amazing new discoveries. And there's no better day to celebrate and start to learn about fossils than on **National Fossil Day**.

# NATURE WORLD NEWS



Home Animals Biology Environment Health & Medicine Tech Travel

TRENDING TOPICS WINTER STORM SNOWPIERCER RED SEA PACIFIC OCEAN ASTHMA ATTACK

# 6 Bucketlist-Worthy Travel Destinations in the US for Fossil Enthusiasts

By Victoria Sinla Oct 03, 2020 08:10 AM EDT

October 14 is <u>National Fossil Day</u>. To celebrate the occasion, we have marked some places in the U.S. where you can go to help you satisfy the fancy of your fossil-obsessed kids at home or perhaps a fossil junkie like yourself.

<u>Lonely Planet</u> and <u>Smithsonian Magazine</u> featured several sights that you and your family may visit to celebrate National Fossil Day.

# Near North Now

# **Near North Now**

HOME LIVING WELL NEWS LEISURE MORE...

# "An Inspiring Educator"

2/29/2020 1 Comment



Sherry Claflin, educator and lifelong learner

Sherry Claflin, an eighth-grade Earth science teacher at White Cloud Junior High School in White Cloud, Michigan, has been named the 2020 recipient of the Edward C. Roy Jr. Award for Excellence in K-8 Earth Science Teaching.

Claflin earned her bachelor's degrees in Earth and space science education and journalism from Central Michigan University. In her 26 years as an educator, Claflin has received recognitions including the Michigan Earth Science Association's Outstanding Earth Science Teacher Award and the National Association of Geoscience Teachers' Outstanding Earth Science Teacher Award for Central Michigan.

In addition to teaching Earth science in her current position, Claflin has served as an editor and contributing writer for Michigan Earth Scientist, an adjunct geology instructor at Muskegon Community College, a teacher at Annis Water Resources Institute, and an education and outreach consultant for the Newaygo Conservation District's Stephen F. Wessling Observatory and Kropscott Farm Environmental Center. With her guidance, Claflin's students recently won the Lexus Eco Air and Climate Challenge.

"Ms. Claflin is an inspiring Earth science educator," said Sharon Tahirkheli, Interim Executive Director of the American Geosciences Institute. "A lifelong learner who leads both her students and her colleagues by example, she champions inquiry-based Earth science education in her school and throughout her community."

Claflin will receive the award in April at the National Earth Science Teachers Association (NESTA) Friends of Earth Science Reception during the 2020 National Science Teaching Association Conference in Boston.

Given annually, AGI's Edward C. Roy Jr. Award recognizes one classroom teacher from kindergarten to eighth grade for leadership and innovation in Earth science education. The award is named in honor of Dr. Edward C. Roy Jr., who was a strong and dedicated supporter of Earth science education. To learn more, please see www.americangeosciences.org/education/awards/roy.

## News Track Live



#### Know why National Fossil Day is celebrated









The preserved remains of the ancient living organisms living on the earth at some time or the impressions left by them in the rocks which are found safe in the earth's surfaces or layers of rocks are called fossil (fauna + ashram = stone). The fossil provides direct evidence of organic growth. Its study is called fossil science or paleontology. The inspection of different types of fossil shows that different types of animals have occurred in different periods on Earth. The oldest fossil deposits contain only the remains of the simplest organisms, but in innovative deposits, the remains of progressively more complex organisms are

As we study the ancient to new times, fossils seem to be very similar to living organisms. Organisms with many intermediate traits suggest that organisms with simple structures have evolved from simple organisms. Most of the fossil is not archival but almost complete series of fossils of horse, camel, elephant, man, etc. have been unearthed from which solid evidence of organic growth is obtained.

Fossil is called fossil in English. The word originates from the Latin word "Fossilus", which means "digger." The word fossil refers to the bio-remains of geological ages of the past which are found in the sedimentary rocks of the earth's crust. These fossils show that they are of biological origin and have biological evidence in themselves.

CBI probes judges' social media posts

Hindu Mahasabha activists protest against Police for seizing Godse's statue

Visakhapatnam, a huge ship that hit

Son shot dead father, mother over property dispute

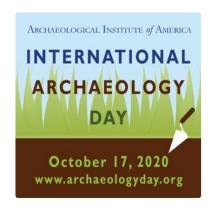
TAGS: NATIONAL FOSSIL DAY . NATIONAL FOSSIL DAY 2020 . NATIONAL FOSSIL DAY NEWS .

### **Ohio History Connection**



<u>Home</u> > <u>Learn</u> > <u>Collections</u> > <u>Archaeology</u> > <u>Archaeology Blog</u> > International Archaeology Day

Today (October 17, 2020) is International Archaeology Day!



It's a day to celebrate archaeology and its contributions to society, and Ohio History

Connection is honored to be part of the event this year with our <u>Archaeology Month event!</u>

To me, archaeology is important as it provides another avenue to study humanity- this time through the lens of the things people leave behind. This is especially important with regards to cultures and parts of society that leave behind no written records or for parts of life that no one typically writes about. For example, written records don't tell us about the trash accumulated by George Washington's family at Mount Vernon, life in the Civil War prison on Johnston's Island, the lives of the slaves at James Madison's home, Montpelier, or (a little closer to home) how people lived in pre-contact Ohio. Archaeology, however, can tell us about these things. Additionally, archaeology can also confirm things written in history, such as the existence of the ancient city of Troy and how the Battle of Wabash was fought. Therefore, archaeology is a way to learn and confirm things about history through material remains; it helps tell us who we are and where we came from.



#### Orton Geological Museum

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# **ORTON**GEOLOGICAL MUSEUM



NEWS ABOUT THE MUSEUM VISIT COLLECTIONS & RESEARCH LEARNING Q

DIN\*O\*STORE GETTING INVOLVED DIGITAL EXHIBITS EARTH SCIENCE WEEK

Orton Geological Museum / Earth Science Week

#### **Earth Science Week**

Join the School of Earth Sciences and the Orton Geological Museum in celebrating Earth Science Week and National Fossil Day

In 2020, our celebration was all virtual, with an installation of a Digital Exhibit of Ohio fossils, a new video, and a special live talk.

In 2019, our celebration of National Fossil Day (October 16, 2019) was also a celebration of the first anniversary of the installation of the *Cryolophosaurus* skeleton in Orton Hall's lobby. Activities include carnival-style games, fossil digs, museum tours and talks.

Please join us next year for our Earth Science Week celebrations!!

## **ORTON GEOLOGICAL MUSEUM**



**NEWS** ABOUT THE MUSEUM VISIT **COLLECTIONS & RESEARCH LEARNING** DIN\*O\*STORE **GETTING INVOLVED** 

**DIGITAL EXHIBITS** EARTH SCIENCE WEEK

Orton Geological Museum / Digital Exhibits / Ohio's Fossil Record

#### **Ohio's Fossil Record**

#### **Ohio's Fossil Record**

In celebration of Earth Science Week, October 11 to 17, 2020 and National Fossil Day, Wednesday, October 14, 2020, the Orton Geological Museum is pleased to present a Digital Exhibit of Ohio fossils.

This exhibition adds to our other Digital Exhibits designed in celebration of The Ohio State University's Sesquicentennial. Many of the specimens illustrated in Ohio's Fossil Record are part of the permanent collection of The Ohio State University. Some, such as the mounted skeleton of a giant ground sloth, were acquired by Edward Orton, the University's first President.

#### Ohio's Fossil Record

#### Cambrian Period

#### Ordovician Period



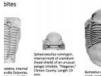






#### Silurian Period









a

#### Penn State News



# Guertin recognized with 2020 President's Award for academic integration



March 27, 2020

UNIVERSITY PARK, Pa. — Laura Guertin, professor of earth science at Penn State Brandywine, has been awarded the 2020 President's Award for Excellence in Academic Integration.



Laura Guertin IMAGE: PENN STATE

better her community.

The award is given to a full-time faculty member who has exhibited extraordinary achievement in the integration of teaching, research or creative accomplishment and service.

Guertin has built her career at the intersection of teaching, research and service, demonstrating extraordinary commitment to engaging audiences in exploring earth science's relevance on life and society, nominators said.

Already the recipient of numerous awards and accolades, Guertin finds ways to improve the education of her students, work closely with her colleagues, elevate underrepresented students in STEM-based fields and Guertin's transdisciplinary efforts include: teaching seventh-grade girls about surveying the ocean, co-organizing with Penn State Libraries an earth science week photography contest for undergraduates and developing a climate impact teach-in for the campus and local communities.

"On a daily basis, Guertin marries her intellectual commitment as a scientist and pedagogical values in the classroom with an unceasing moral dedication to serving the communities of which she is a part, a nominator said. "We are better equipped as a community and as citizens to face the challenges of the future because of her efforts."

Guertin often embraces technology to enhance her reach and the education of her students.

Using Google Earth, her students produced an enhanced biodiversity walking tour for the nearby Ridley Creek State Park. Students also generated informative podcasts for the Pennsylvania Earth Science Teachers Association website. Currently, they're generating earth science-themed Wiki pages for the Society of Exploration Geophysicists (SEG) Wiki. Students have contributed more than 75 pages to the SEG Wiki for the geoscience community and public.

The Academy of Natural Sciences in Philadelphia, Junior Girl Scouts of America and the Tyler Arboretum have also called on Guertin to enhance learning.

"Dr. Guertin is a highly accomplished educator, communicator, mentor and gender equity advocate," a nominator said. "She is an exemplar of academic integration in its highest form, having effectively integrated her sustained success as a scholar into the classroom learning environment, where she is widely lauded for instructional and effectiveness, and into the community, where she is valued for her unique ability to communicate the impact of her work to a general audience."

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## Phelps County Focus















News The Focus Insider Obituaries Sports Opinion Multimedia Our Community Faith School News Classifieds

## Earth Science Week perfect time to visit Rolla's Ed Clark Museum of Missouri Geology



Jerry Prewett, the deputy director of the Missouri Geological Survey, a division of the Missouri Department of Natural Resources, next to a geologic map of Missouri on display at Rolla's Ed Clark Museum of Missouri Geology. Andrew Sheeley

Earth Science Week will begin Sunday and continue through Oct. 17 across the globe. The annual event is observed to help the public gain a better understanding of Earth sciences and to encourage better stewardship of the planet. Its 2020 theme is "Earth Materials in Our Lives."

Those looking for an opportunity to take part in Earth Science Week have the perfect opportunity by visiting Rolla's Ed Clark Museum of Missouri Geology. Over the past couple decades, the museum has grown to become the state government's designated spot for geologic wonders. It is open to the public daily from 8 a.m. to 5 p.m. weekdays in the Missouri Department of Natural Resources Missouri Geological Survey building located at 111 Fairgrounds Road. Admission is free.

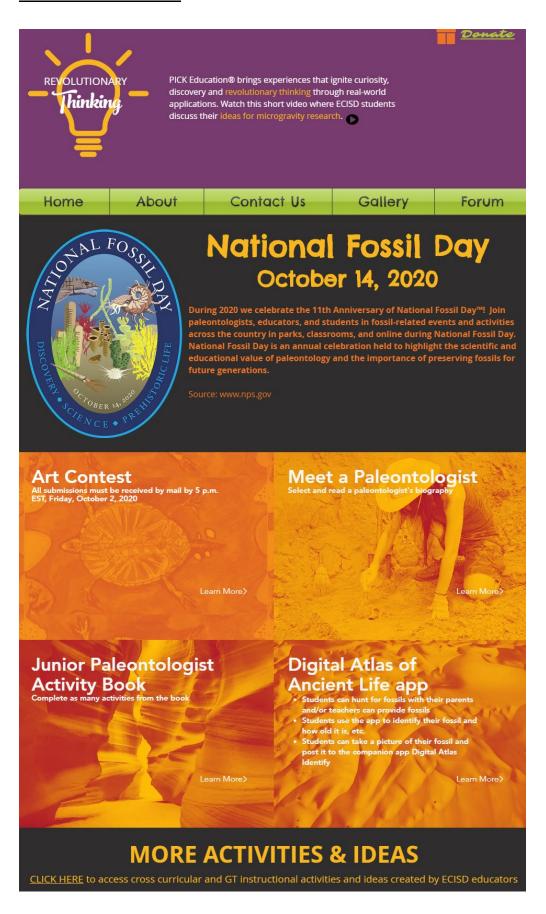
"Missouri has one of the more interesting state geologic maps in the United States," says Jerry Prewett, the deputy director of the Missouri Geological Survey, a division of the Missouri Department of Natural Resources.

Prewett recently led The Insider on an exclusive tour of the Ed Clark museum. It is named after one of Missouri's most accomplished state geologists.

To begin, Prewett highlighted the geologic landscape of the state includes:

- Northern Missouri being defined by the glaciation with examples of glacial erratics having been found, which are rocks from Canada and the northern United States that were deposited by glacial movements.
- The alluvium of the Missouri River valley and the glacial deposits of northern Missouri includes the bones, teeth and tusks of Pleistocene-age (ice age) mammals.
- A small and isolated deposit in Bollinger County has also yielded the bones of Cretaceous Period dinosaurs, turtles and fish.
- The Ozarks is made up of widespread karst topography.
- Precambrian-age intrusive and volcanic igneous rocks are exposed in the St. Francois Mountains.
- The Bootheel region of Missouri has a seismic zone around the New Madrid Fault.

## **PICK Education**



### Planeta.com

#### Planeta.com



National Fossil Day Poster

**National Fossil Day** is an annual celebration held to highlight the scientific and educational value of paleontology and the importance of preserving fossils for future generations.

In 2020 National Fossil Day takes place October 14 in the USA. Hashtag: #NationalFossilDay

Join paleontologists, educators, and students in fossil-related events and activities across the country in parks, classrooms, and online during National Fossil Day. National Fossil Day is an annual celebration held to highlight the scientific and educational value of paleontology and the importance of preserving fossils for future generations.

#### **Key Links**

nps.gov

Facebook

#### Questions

How is the date of National Fossil Day selected?

Spotlight on Guadalupe Mountains National Park

## Puzzle Page Answers



#### New York Times Earth Science Week Answers

2020) was created by Fred Piscop and the clues were very challenging so we decided to share all the solutions below. As you know we are not affiliated with the New York Times Crossword in any way, we just share the answers to help out users that play this lovely game.

- Cartoon purveyor of earthquake pills and portable holes
- \_\_\_-cotta (earthenware)
  Strong wind

- Visitor to earth
- Epps of House Letters at Calvary
- Made mention of
- Parks of civil rights fame
- Nikola who invented an earthquake machine Highest point on earth
- Red-coated Dutch cheese
- Point opposite WNW
- Google Earth or Tinder So long amigo!
- It wasn't me!
- Texter's guffaw Daybreak in verse
- ... shall not \_\_\_ from the earth: Gettysburg Address
  Sad to say ...
- Pale earthy tone
- Earthenware stewpot
- Mother Farth
- Number of Gemini missions that put astronauts into earth orbit
- Heavens and Earth poet Stephen Vincent \_\_\_
- Ave. crossers in N.Y.C.
- Fish born from earthworms per Aristotle
- Earth to heart Spaceship Earth's theme park
- Right away! on a memo
- Makeup of an Earth-protecting layer
- \_\_\_-earth element
- Appear as from the earth's horizon
- One said to roam the earth wreaking havoc
- Currier's partner in lithography
- Heavens on earth
- Not as much
- Came down to earth

- Planet beyond Earth Zola who wrote La Terre (The Earth) Earthy shade
- Evil Woman band for short Bar mitzvah or baptism
- Keanu of The Day the Earth Stood Still
- Longest mountain range on earth
- Al who wrote Earth in the Balance Singer Tori with the debut album Little Earthquakes
- Not if you were the \_\_\_ man on earth! Period of the earth's history
- First man on earth
- Lacoste of tennis and fashion
- Earthen brick
- Boggy earth Alda of M\*A\*S\*H
- Pertaining to the earth's extremities Section of the earth's crust
- Getting chilled as wine
  \_\_\_ y Plata (Montana's motto)
- Is at an angle like the earth's axis Speck of earth in the ocean
- Rosie of White Men Can't Jump
- Author \_\_\_ Christian Andersen
- Center of Farth's orbit
- Nicolas who directed The Man Who Fell to Earth
- Burned brightly
- Earth Day's month
- About 30% of the earth's land mass
  Org. featured in From the Earth to the Moon
- Earth's ruling species in a 1968 science fiction movie
  I Feel the Earth \_\_\_ (Carole King song)
- Hollow in the earth
- Resources from the earth
- Thomas Hardy heroi
- Diarist Anaïs



**PUZZLE PAGE ANSWERS** 

**PUZZLE PAGE GAMEPLAY** 

**PUZZLE PAGE SPECIAL ISSUES ANSWERS** 

# Number of Gemini missions that put astronauts into earth orbit

Posted by krist on 11 October 2020, 9:22 pm

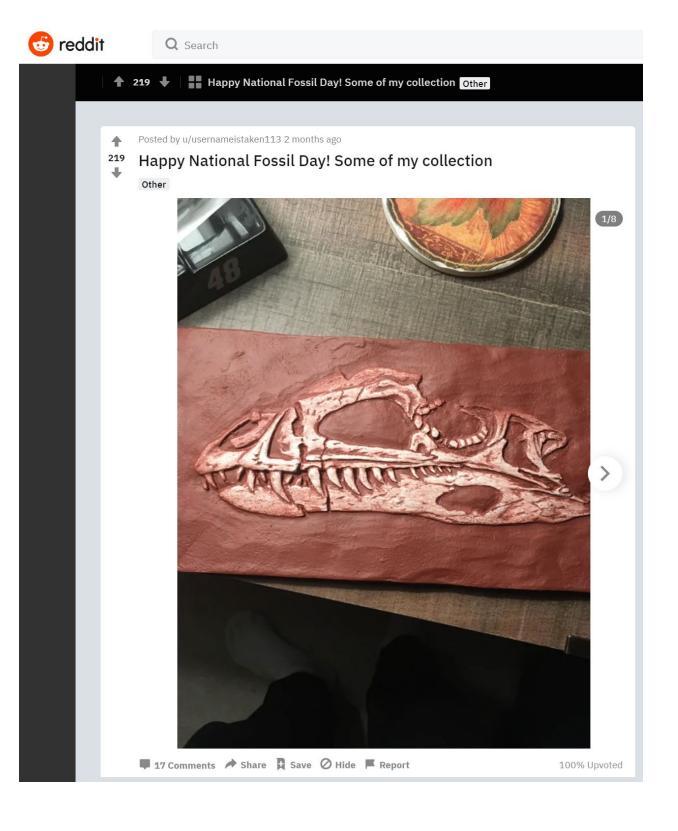


Number of Gemini missions that put astronauts into earth orbit. If you are New York Times Crossword player you know that each month there is a puzzle released for you to solve. This month the name of this puzzle is Earth Science Week (October 2020) and we have solved all the clues.

Number of Gemini missions that put astronauts into earth orbit

	NEW YORK TIMES EARTH SCIENCE WEEK ANSWERS
TEN	

## Reddit

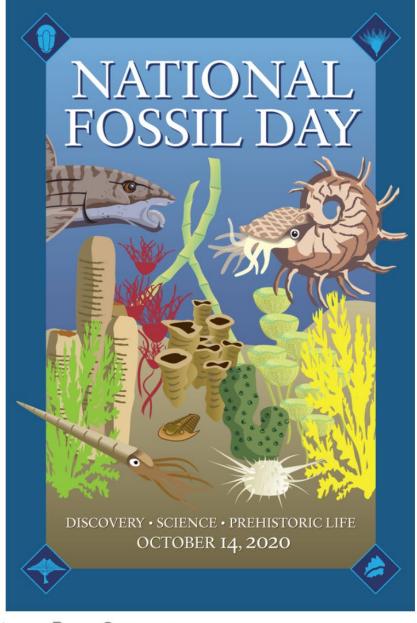


October 14th is National Fossil Day! PaleoAnnouncement

Posted by u/mEgstad 2 months ago

268 October 14th is National Fossil Day!

PaleoAnnouncement



■ 1 Comment 🖈 Share 📮 Save 🕢 Hide 📕 Report







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#### SIUE STEM Center Offers Unique Geocoins for EarthCache Explorers

#### by Megan Wieser

published October 17 2020 7:02 AM updated October 15 2020 5:32 PM

EDWARDSVILLE - EarthCaches are interesting geological sites that help individuals explore the landscapes around them. The Southern Illinois University Edwardsville STEM Center is encouraging community members to take part in the fun, outdoor learning opportunity by visiting EarthCache sites on the SIUE campus and in the region.

"It's Earth Science Week, and last Sunday was EarthCache Day, so we figured what better time to encourage people to dive into geoscience learning," said STEM Center Instructor and Outreach Specialist Colin Wilson. "There are EarthCache sites all over the world, and the STEM Center has created some within reach of campus. These sites open people's eyes to some of the geology of this region. They're available for some socially-distant outdoor fun, and offer opportunities to learn something new and explore SIUE's amazing campus and surrounding areas while enjoying the fall beauty."



The STEM Center is offering a special incentive to engage in EarthCaching. Community members who find at least three of the STEM Center's six EarthCaches will get a beautiful geocoin. The collectors' items are limited, so Wilson encourages participants to explore soon.

Information on the STEM Center's six EarthCache sites is available at

SIUESTEMCenter.org/earthcaching. The site also offers ideas for incorporating EarthCaches into the classroom, tips for creating original EarthCaches and a virtual walkthrough of an example EarthCache.

Participants who complete the three-site challenge should email STEM Center Director Sharon Locke, PhD, at slocke@siue.edu. Geocoins will be distributed this fall in the order the Center receives submissions.

The Southern Illinois University Edwardsville Center for STEM Research, Education and Outreach comprises an independent group of researchers and educators, innovating ways to engage students and the public in science, technology, engineering and math (STEM). Within the SIUE Graduate School, the Center brings together research faculty, graduate students and practitioners to conduct education research. The Center contributes educational expertise to SIUE undergraduate classes and provides professional development for K-12 teachers. The Center boasts a significant library of equipment and resources, which are available for loan at no cost to campus and regional instructors. For more information, visit https://www.siue.edu/stem/ or contact STEM Center Director Sharon Locke at (618) 650-3065 or stemcenter@siue.edu.

\$10 for \$20 Half Price Deals at deals.riverbender.com

### Samakal

#### MAKAK

BANGLADESH

POLITICS INTERNATIONAL SPORTS ENTERTAINMENT LIFE & STYLE Photo Gallery

বাংলা

♥ Dhaka Tue, 15 Dec 2020

A / BANGLADESH / Earth Science Week-2020, Bangladesh held

## Earth Science Week-2020, Bangladesh held

**O Published:** 18 Oct 2020 | Updated: 18 Oct 2020



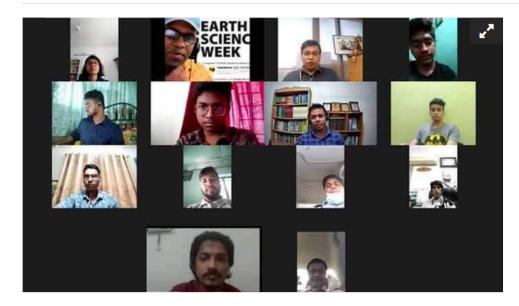








#### **Online Desk**



The American Geosciences Institute has been organizing the international event called Earth Science Week since October 1999.

The festival has been celebrated in Bangladesh for the last three years under the leadership of physicist Mashiur Rahman with the permission of the American Institute of Geosciences.

This year BRAINEX Bangladesh and Daily Samakal Suhrid Samabesh have joined it. The daily SAMAKAL is a leading newspaper in Bangladesh.

On this occasion, the event was celebrated from October 11-17 through various events, including photography competitions, online essay competition and online seminars. This year's theme was "Earth Materials in Our Lives." .

A special online seminar was organized on the closing day on October 17 and the names of winners of the competition were announced.

### Soco Today



COLORADO SPRINGS

# Help us celebrate the 11th annual Fossil Day! National Fossil Day is Wednesday ...



Help us celebrate the 11th annual Fossil Day! National Fossil Day is Wednesday October 14, but Garden of the Gods will celebrate early with new online content October 10th through the 18th, and in-person giveaways beginning Monday, October 12th.

#### In person:

Come to the <u>Garden of the Gods Visitor and Nature Center!</u> See our unique dinosaur, Theiophytallia kerri, and attend the Geo-Trekker Theater to see the presentation titled "How did those Red Rocks get There?" Don't forget to stop by the gift shop and purchase the awardwinning Junior Ranger book! Beginning October 12th, fossils and stickers are included with your Junior Ranger book (while supplies last).

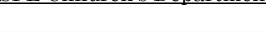
#### Online:

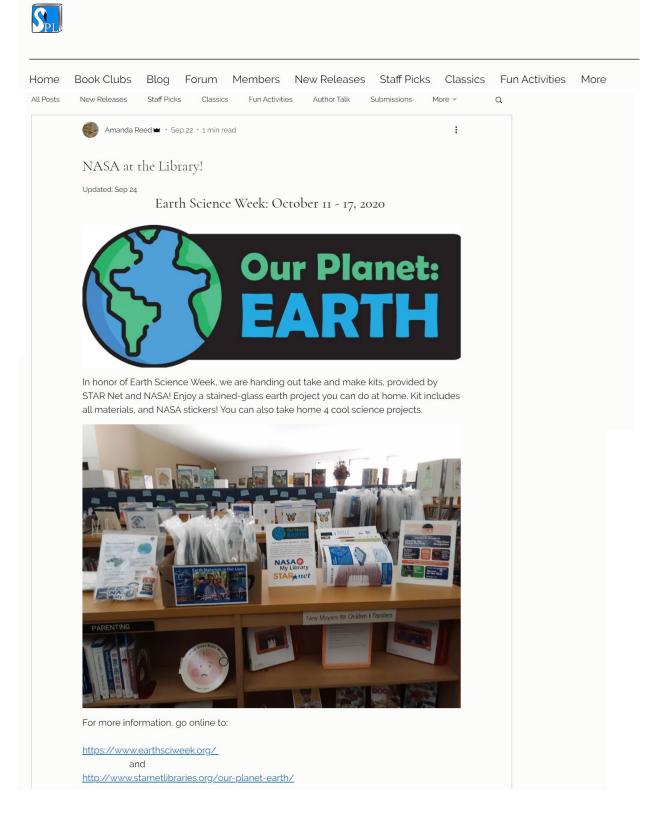
Visit <a href="www.GardenofGods.com">www.GardenofGods.com</a> on October 10th to see fossil videos, downloadable coloring pages, and links to the <a href="National Park Service">National Park Service</a> website where you can explore more information about fossils and download the Junior Paleontologist booklet!

#### Share via:



## SPL Children's Department





Search

### Spot On Florida



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Florida Government

Florida Blogs & Entertainment



October 17, 2020, 08:51 am

Previous Next

Did you know that St. Augustine is one of the few cities in the country that have an Archaeological Preservation Ordinance? Happy International Archaeology Day!...

17-10-2020 1:51 PM

City of St. Augustine posted the following on Facebook:



Did you know that St. Augustine is one of the few cities in the country that have an Archaeological Preservation Ordinance? Happy International Archaeology Day!

In this video, learn why St. Augustine Archaeology is so special. Check it out here: https://youtu.be/3AKbsy0JPlo... Meer weergeven

Read further at news source





October 13, 2020, 13:57 pm

Previous

Englewood

## **COLUMN:**Celebrate International Archaeology Day

13-10-2020 6:57 PM

Celebrate International Archaeology Day virtually with us from 10 a.m. to 2 p.m. Friday.

### Sun Englewood





## **COLUMN: Celebrate International Archaeology** Day

By LINDA CITRO Englewood Charlotte Library Oct 13, 2020 Updated Oct 13, 2020 👲 0



f y = 0 0

Celebrate International Archaeology Day virtually with us from 10 a.m. to 2 p.m. Friday.

The Florida Public Archaeology Network and the Charlotte County Libraries and History Division host this local event to connect Southwest Florida with its long human history which reaches back thousands of years. This online event offers information on local heritage sites, archaeology-themed crafts, and presentations by renowned archaeologists discussing the unique archaeology of our state.

The Florida Public Archaeology Network's mission is to promote and facilitate the conservation, study, and public understanding of Florida's archaeological heritage. FPAN performs public presentations, school visits, public events, and helps our community stay up to date on local archaeology and history. For information, visit fpan.us.

History Services is part of the Community Services Department, Libraries & History Division of Charlotte County Government. The mission of History Services is to offer a variety of programs and services to educate the community about the rich history of the Charlotte County area while preserving and protecting the County's historical resources for future public use.

Every October the Archaeological Institute of America and archaeological organizations around the world present archaeological programs and activities for people of all ages and interests. Whether it is a family-friendly archaeology fair, a guided tour of a local archaeological site, a simulated dig, or a presentation from a visiting archaeologist, the interactive, hands-on IAD programs provide a chance to uncover the past and experience the thrill of discovery

There are many interesting virtual events occurring including "Omrit Excavations in North Israel," "Reclaim Native America's Culture," "The Obsidian Mirror" and more. For a full listing of events, visit the event calendar for International Archaeology Day at www.archaeological.org/events/category/international-archaeology-day/list/.

You can also get out of the house to enjoy this nice weather and take a hike to discover some archaeological sites near you. Check out the interactive map on Florida Hikes at floridahikes.com/tag/archaeological-sites.

Nearby trails with one or more archaeological sites include the Fred Duisberg Nature Trail on Manasota Key, the Charlotte Harbor Preserve State Park, the Cape Haze Pioneer Trail near Gulf Cove, the Cabbage Key Nature Trail, the Ortona Mounds Trail in Glades County, the Myakka Hiking Trail in Sarasota and many more.

Get outside and enjoy this nice weather and learn about the history of our area.

I hope you have been checking out the interesting virtual programming we have on our Facebook page and webpage, https://tinyurl.com/y3m79cxj. We are adding new programs and have craft kits that you can pick up at the library using

#### Tahlequah Daily Press







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## International Archaeology Day planned at Spiro Mounds

Sep 30, 2020













October is Archaeology Month in Oklahoma and internationally, and Spiro Mounds Archaeological Center will celebrate International Archaeology Day on Saturday, Oct. 17, with a lecture, a guided walk, and many other activities.

Spiro Mounds Archaeological Center is the only prehistoric American Indian archaeological site in Oklahoma open to the public and is a good place to celebrate Archaeology Month.

Lectures about the prehistory and history of this region will start at 11 a.m. There also will be a guided tour of the site at 2 p.m. led by manager Dennis Peterson. Regular exhibits and educational games and activities will be available throughout the day, as well.

Several expert flintknappers, or stone tool makers, will be on hand to show off their skills from 10 a.m. to 4 p.m. An archaeologist will be available to identify artifact collections for visitors during that same time.

To promote social distancing, no more than 10 people will be allowed in the center at any time, although more are permitted on the trails while keeping six-foot distancing. Demonstrations and activities will be held outside as much as possible.

For more information, call 918-962-2062 or email spiro@okhistory.org.

Oklahoma Archaeology Month is sponsored and promoted by the Oklahoma Anthropological Society and the Oklahoma Public Archaeology Network, and includes many more events throughout Oklahoma during October. Many of these events will be held virtually.

## Taylor & Francis Group









#### Celebrating Earth materials in our lives

This year's Earth Science Week theme is centered around earth materials in our lives. In celebration of this significant week we have curated three article collections containing the most impactful research from our Earth Science Portfolio. The collections bellow include: Geoscience, Paleontology & Remote Sensing.

All featured research will be available via this page until 28 February 2021 for you to read, share and cite.

Explore the collections and join in the conversation at @tandfenviro with #EarthSciWeek









Remote sensing and GIS explores the use of technologies to gather information about the earth we live on.

In celebration of this year's Earth Science Week, and in acknowledgement of the breadth of research, we've collated free leading articles from our remote sensing and GIS portfolio. The articles below cover a variety of uses of remote sensing and GIS, including land-use, natural hazards and smart technologies.

All featured research will be available via this page until 28 February 2021 for you to read, share and cite.

Explore the collection and join in the conversation at @tandfenviro with #EarthSciWeek.









Geoscience studies the processes that form and shape the Earth's surface, the natural resources we use, and how water and ecosystems are interconnected.

In celebration of this year's Earth Science Week, and in acknowledgement of the breadth of research, we've collated free leading articles in the geoscience portfolio. The articles below cover a variety of topics and have been grouped into the following themes, minerology and petrology, energy and hydrogeology.

All featured research will be available via this page until 28 February 2021 for you to read, share and cite.

Explore the collection and join in the conversation at @tandfenviro with #EarthSciWeek.

#### **Minerology & Petrology**

Sound scientific papers focused on the the study of rocks and the processes that form and transform them.

### Tennessee Department of Environment and Conservation (TDEC)



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TDEC COVID-19 RESPONSE AND RESOURCES

## TDEC Offers Teachers Toolkits for Earth Science Week

Friday, September 18, 2020 | 02:30pm

The Tennessee Department of Environment and Conservation (TDEC), in partnership with the American Geosciences Institute, will distribute a limited number of Earth Science Week toolkits to science teachers across the state as part of Earth Science Week Oct. 11-17.

"We are pleased we can offer teachers across our state helpful materials to use for Earth Science Week," TDEC Commissioner David Salyers said. "We want students to be fascinated by this important field of study, and we are glad TDEC can play a role in this effort."

The 2020 Earth Science Week theme is "Earth Materials in Our Lives," which will focus on ways Earth materials impact humans – and the ways human activity impacts these materials – in the 21st Century. The theme will promote public understanding of geoscience and stewardship of the planet, especially in terms of these raw materials. The Earth system includes various rock, fluid, gaseous and mineral materials – many of which are nonrenewable resources in limited supply - that individuals and societies use to live and thrive.

Special items in the toolkit include NASA materials on water science and a poster on agriculture, a Geologic Map Day poster dealing with Earth materials, a hydrology flyer from the Nutrients for Life Foundation, National Science Foundation worksheets on rocks and water, and various learning activities.

Each year Earth Science Week reaches more than 50 million people across the country and around the world. Individuals and groups will celebrate Earth Science Week by participating in events in all 50 states and several other countries.

Educators interested in receiving an Earth Science Week toolkit may contact Ron Zurawski at Ronald.Zurawski@tn.gov or (615) 532-1502. The toolkits are free of charge while supplies last. For more information about Earth Science Week, please visit www.earthsciweek.org.

### The Advertiser Tribune

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## The Advertiser-Tribune

#### **ODNR** going virtual for Earth Science Week

COLUMBUS — Ohioans are invited to join the Ohio Department of Natural Resources D0ivision of Geological Survey in celebrating the state's natural history during Earth Science Week, beginning Sunday and continuing through Oct. 17.

This year's theme—"Earth Materials in Our Lives"—highlights the many ways natural resources impact human lives and the ways human activities impact materials.

"Earth provides numerous raw materials, such as metals, industrial minerals, and groundwater, and these resources provide us with the materials necessary for creating products we depend on every day. However, extraction of these materials has many impacts on Earth and its inhabitants," said Mike Angle, state geologist and chief of the ODNR Division of Geological Survey. "Earth Science Week will promote public understanding of geoscience and stewardship of the planet and its resources."

In light of the restrictions on large gatherings during the COVID-19 pandemic, geologists and special guests plan to present free webinars on a variety of topics. Part of the Ohio Rock Talks series, the webinars for Earth Science Week include:

Tuesday, 10 a.m., Sound Waves & Water - Monitoring Ohio's Dynamic Geology

Wednesday, noon, Fossils of the Columbus Limestone & Ohio Places to View Them

Wednesday, 2 p.m., How to find Ohio Fossils

Thursday, 10 a.m., Reimagining the Geoscience Workforce: Accessible, Inclusive, Innovative

Friday, 10 a.m., Everyday Uses for Geologic Maps

Details are available on the website, https://ohiodnr.gov/wps/portal/gov/odnr/discover-and-learn/safety-conservation/about-ODNR/geologic-survey/educational-resources/earth-science-week-ohio.

Also available to Ohio teachers and educators are a limited number of Earth Science Week teacher toolkits. The toolkits include experiment instructions, a calendar, posters, activity sheets and more materials for teachers to use in the classroom. Toolkits are free (plus \$5 shipping) for any Ohio teacher, while supplies last.

Teacher toolkits, maps and other publications can be ordered by contacting the Geologic Records Center at (614) 265-6576 or geo.survey@dnr.ohio.gov.

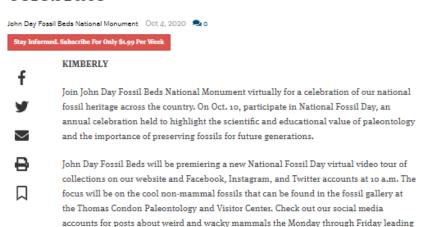
### The Argus Observer

up the Oct. 10.



National Fossil Da

# Take a virtual tour of fossil collections on Oct. 10 to celebrate



The Thomas Condon Paleontology Center will also be open on Oct. 10 from 10 a.m. to 4 p.m. The theater, Junior Ranger room and Fossil Gallery remain closed in response to the COVID-19 pandemic. However, youth can still earn a Junior Paleontologist badge, John Day Fossil Beds Junior Ranger badge and pick up a new National Park Service paleontology coloring book. These activities are also available online at www.nps.gov/joda.

Roy Zipp, acting superintendent at John Day Fossil Beds says, "National Fossil Day celebrates the fascinating science of paleontology, which peers into the distant past and explores worlds of plants and animals that no longer exist today. The fossil gallery in the visitor center has been closed for most of this year, and we are excited to share virtually some of the amazing fossils you can't see in person at this time."

Visitors are urged to get involved and participate in the 11th annual National Fossil Day Art Contest sponsored by the National Park Service and National Fossil Day partners. The contest is open to any interested person, of any age. Entries will be judged based on originality, creativity and how well the submission addresses this year's contest theme. The theme of National Fossil Day this year is Permian marine life. You must be a resident of the United States to enter. For more details about submitting to the National Fossil Day Art Contest, visit https://www.nps.gov/subjects/fossilday/art-contest-2020.htm.www.nps.gov.

About the National Park Service. More than 20,000 National Park Service employees care for America's 417 national parks and work with communities across the nation to help preserve local history and create close-to-home recreational opportunities. Learn more at www.nps.gov.

## The Bryan News



# ODNR celebrates Earth Science Week with free webinars

By Times Staff Oct 4, 2020 

If you want to add value to remote learning, the Ohio Department of Natural Resources Division of Geological Survey will host a series of free webinars during Earth Sciences Week, Oct. 11-17.

This year's theme — "Earth Materials in Our Lives" — highlights the many ways that natural resources impact our lives and the wave our activities impact these materials

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### The Clermont Sun





## ODNR going virtual for Earth Science Week Oct. 11–17



Submitted by the Ohio Department of Natural Resources.

Ohioans are invited to join the ODNR Division of Geological Survey in celebrating the state's natural history during Earth Science Week, Oct. 11–17.

This year's theme—"Earth Materials in Our Lives"—highlights the many ways that natural resources impact our lives and the ways our activities impact these materials.

"Ohio's geology has influenced the state's cultural and economic development since before statehood," Ohio Governor Mike DeWine said. "Earth Science Week celebrates that history and provides an opportunity for all Ohioans to explore and learn more about the role that natural resources play in their daily lives."

"Earth provides numerous raw materials, such as metals, industrial minerals, and groundwater, and these resources provide us with the materials necessary for creating products we depend on every day. However, extraction of these materials has many impacts on Earth and its inhabitants," Mike Angle, State Geologist and Chief of the ODNR Division of Geological Survey, said. "Earth Science Week will promote public understanding of geoscience and stewardship of the planet and its resources."

In light of the restrictions on large gatherings during the COVID-19 pandemic, geologists and special guests will present several free webinars on a variety of topics. Part of the Ohio Rock Talks series, the webinars for Earth Science Week include:

Friday, Oct. 9, 10 a.m., Rocks & Minerals in Our Lives

Tuesday, Oct. 13, 10 a.m., Sound Waves & Water—Monitoring Ohio's Dynamic Geology Wednesday, Oct. 14, 10 a.m., Fossils of the Columbus Limestone & Ohio Places to view Them Wednesday, Oct. 14, 2 p.m., How to find Ohio Fossils

Thursday, Oct. 15, 10 a.m., Reimagining the Geoscience Workforce: Accessible, Inclusive, Innovative Friday, Oct. 16, 10 a.m., Everyday Uses for Geologic Maps

Complete event details are available on the ODNR Division of Geological Survey website here.

Also available to Ohio teachers and educators are a limited number of Earth Science Week teacher toolkits. The toolkits include experiment instructions, a calendar, posters, activity sheets and more materials for teachers to use in the classroom. Toolkits are free (plus \$5 shipping) for any Ohio teacher, while supplies last.

Teacher toolkits, maps, and other publications can be ordered by contacting the Geologic Records Center at 614-265-6576 or <a href="mailto:geo.survey@dnr.ohio.gov">geo.survey@dnr.ohio.gov</a>

The ODNR Division of Geological Survey encourages educators and all Ohioans to take advantage of the opportunities available during Earth Science Week to explore and learn more about the geology beneath their feet.

Since 1998, the American Geological Institute has sponsored Earth Science Week. The annual event encourages people to learn about and gain better appreciation for the geosciences, while promoting an awareness of the natural world. Several Focus Days highlight the week by targeting themes such as science literacy, fossils, and geoscience careers.

## The Gazette-Democrat

# THE GAZETTE-DEMOCRAT

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#### In Celebration Of National Fossil Day...

Fri, 10/16/2020 - 5:28pm admin

#### Please read this...

#### BY: GEOF SKINNER

This week, we're making note of National Fossil Day, which was celebrated around the world and throughout the universe on October 14 with parades, hoopla and lots of other exciting activities.

Speaking of fossils, let's start with something I saw about a Tyrannosaurus rex fossil skeleton which sold last week at an auction for about \$32 million. Yup. Thirty two million dollars. Amazing.

That got me to thinking: How many fossil seashells, at about a buck-fifty each, would an amateur fossil hunter (like yours truly) have to find, and sell on eBay, in order to retire comfortably?

The answer, sort of, is about 21,333,333. We have a fair number of fossil seashells, but I don't think it's quite enough to generate a comfortable retirement income. Oh, well.

The Other Half and your amateur fossil sleuth got an early start on our National Fossil Day celebration last Sunday afternoon, when we went on another pandemic date.

## The Registered Citizen

THE REGISTER CITIZEN  $\equiv$ 

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## IAIS to celebrate International Archaeology Day in Washington

Staff reports

Oct. 9, 2020 | Updated: Oct. 9, 2020 1:44 p.m.









Celebrate International Archaeology Day in Washington Oct. 17 at the Institute of American Indian Studies.

 $\mbox{WASHINGTON}-\mbox{Oct.}$  17 is International Archaeology Day, organized by the Archaeological Institute of America, the largest and oldest nonprofit organization dedicated to archaeology founded in 1879. More than  $800\,$ organizations worldwide are participating in this exciting event including the Institute for American Indian Studies, 38 Curtis Road, Washington.

The study of archeology and Native American culture is a core function of the Institute's mission of stewardship and preservation. Over the years the Institute has surveyed or excavated over 500 archaeological sites.

#### The RiotACT





#### ACT's fossil emblem unveiled in rock-solid election

Michael Weaver - 25 October 2020





Geoscience Australia chief scientist Dr Steve Hill with ACT Minister for the Environment and Heritage Mick Gentleman and the ACT fossil

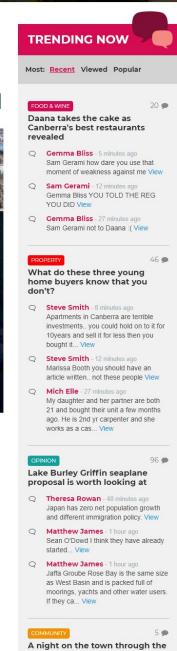
There was more than just one election in the ACT last week, except this one actually involved participants being caught between a rock and a hard place.

Long before politics became enshrined in stone, this election has been 430 million years in the making after five fossils were selected as finalists to become the ACT fossil emblem.

The five candidates up for election were two trilobites, two brachiopods and a graptolite, with voting open to the public to decide which fossil will sit alongside the ACT's other emblems.

Chief scientist at Geoscience Australia Dr Steve Hill unveiled batocara mitchelli as the favoured fossil, saying more than 1100 members of the public voted, with the trilobite taking 30 per cent

"I had my own favourite, the brachiopod, as part of the 'clam clan', but clearly this public votes reinforces and builds the community's connection to the earth, particularly here in Canberra," said Dr Hill.



eyes of the night crew

#### The River Houses



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#### NATURE NOTES: It's National Fossil Day!

Topics •

14 October 2020 by Horace the Otter 🐸

Today is National Fossil Day! Since 2009, the U.S. National Park Service has celebrated National Fossil Day during international Earth Science Week "to highlight the scientific and educational value of paleontology and the importance of preserving fossils for future generations."



Depending on where you live you may or may not be able to get out and examine fossils easily in the field, but thanks to the Smithsonian Institution and the wonderful online Biodiversity Heritage Library, you and your students can explore a wealth of books and other published materials on paleontology right from the comfort of your little home academy. Many of these materials are quite rare and valuable, and as recently as a few years ago they would have been accessible only to professional researchers in the largest institutions. Here's an introduction to these online materials from the Smithsonian Libraries:

## The Sun Newspapers

## THE SUN NEWSPAPERS

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OUTH JERSEY SPORTS WEEKLY

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Home > Berlin Letters & Opinions > Editorial; South Jersey is rich in paleontological discoveries

# Editorial: South Jersey is rich in paleontological discoveries

Celebrate National Fossil Day by learning about local geologic heritage

By The Sun Newspapers - October 14, 2020









The 11th anniversary of National Fossil Day is Oct. 14. According to the National Park Service, the day was established as an opportunity to highlight the scientific and educational value of paleontology, as well as the importance of preserving fossils for future generations.

Lucky for us, South Jersey is the perfect place to celebrate National Fossil Day!

An incredible spot of prehistoric discovery is located a stone's throw from the Lowe's in Mantua Township. An access road that runs behind a hardware store will bring visitors to the Jean & Ric Edelman Fossil Park at Rowan University, home to thousands of fossils dating back to the mass extinction of dinosaurs 66 millions years and.

While not currently open to tours, the park still offers plenty to learn on its website and social media pages. Saved from redevelopment nearly a decade ago thanks to world renowned scientist Dr. Ken Lacovara and Mantua Township, the site is reflective of a time when South Jersey was under some 70 feet of sea water, giving way to primarily marine deposits and fossils.

The Jean & Ric Edelman Fossil Park isn't Mantua's only claim to dinosaur fame. The dryptosaurus aquilunguis, a relative of the tyrannosaurus, was unearthed in 1866 in what is now the township's Ceres Park.

Not far from Mantua, many people know Haddy, the bronze dinosaur statue standing sentry over Kings Highway in downtown Haddonfield. But not everyone knows the historic significance of that dinosaur. Discovered in 1858 in the borough, Hadrosaurus foulkii was the first nearly complete dinosaur skeleton unearthed. It is now both New Jersey's state fossil and state dinosaur, and a historical marker pinpoints the excavation spot in Hadrosaurus Park, a small site just off Grove Street.

That's just the tip of the iceberg when it comes to dinosaur discoveries in South Jersey. Do your own digital digging and use National Fossil Day to uncover more prehistoric tales.

## The Tribune



## **Tribune**

## Roxborough State Park holding series of free guided activities in October

By Hannah Metzger Special from The Denver Gazette Oct 7, 2020 Updated Oct 7, 2020



Wild lupine grow near the rock formations of Roxborough State Park in June. Jerilee Bennett/The Denver Gazette **Buy Now** 



Roxborough State Park in Douglas County will hold a series of events throughout October, with a different guided activity almost every day of the month, the park announced Wednesday.



The programs, sponsored by Colorado Parks and Wildlife, are nearly all free, but vehicles entering the park still require an annual pass or a \$9 day pass.



The celebration kicks off Friday with the park's first Rox Ride, a guided tour of the Fountain Valley Trail in an electric golf cart. The Rox Rides, starting at 10 a.m., will be held every Friday and Saturday of the month, plus one Sunday event, on Oct. 4.

## The World News Monitor

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#### **Environment**

# Sharjah Archaeology Authority celebrates 'International Archaeology Day'

Emirates News Agency | Oct 17, 2020 at 10:01 PM



- The Sharjah Archaeology Authority recently organized a large scale program to mark the annual International Archaeological Day, on 17th October.
- The program also included a virtual lecture delivered via Zoom, presented by Eisa Yousif, Director of the Department Archaeology at the Sharjah Archaeology Authority, entitled "The Pioneering Role of Archaeological Findings in the Emirate of Sharjah".
- The same is the case about the ancient Stone Age of domestication of animals, cave sites in Jebel Faya, and the discovery of a large settlement in the third century BC, (Mleiha), which is considered one of the most important settlements that knew writing of all kinds, Musnad and Aramaic, as the coinage was known and used.

#### **Todayheadline**

## **Todayheadline**

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# 6 Bucketlist-Worthy Travel Destinations in the US for Fossil Enthusiasts

October 3, 2020 in News, Travel

October 14 is a National Fossil Day. To celebrate the occasion, we have marked some places in the U.S. where you can go to help you satisfy the fancy of your fossil-obsessed kids at home or perhaps a fossil junkie like yourself.

Lonely Planet and Smithsonian Magazine featured several sights that you and your family may visit to celebrate National Fossil Day.

Dinosaur National Monument, Utah

The Dinosaur National Monument is located across the Colorado Border in Utah's Unita Mountain. It is known for being one of the most well-known fossil hotspots in the US. It has a geological formation known as Morrison Formation, which yields several exceptionally well-preserved dinosaurs that feature stegosaurus, allosaurus, and the Apatosaurus.

The Morrison Formation, which is made up of limestone, mudstone, sandstone, and siltstone, is in Dinosaur National Monument in Colorado and Utah. However, the dinosaur fossils are in the Utah portion only. One can also explore the Fossil Discovery Trail, a 1.2-mile path that showcases layers of rocks, fossils, and preserved dinosaur bones.

(Photo: Wikimedia Commons)

Whirlpool Canyon in Dinosaur National Monument, Utah, USA

Check out the dinosaurs embedded in the stones of Carnegie Quarry. In McKee Springs, find the petroglyphs made by the Fremont indigenous people over 1000 years ago, the ancestors of Ute and Shoshone people who are still living in the area now.

Should you be interested in overnight camping, the Dinosaur National Monument has six campgrounds. There are also tent areas in Vernal, Utah, to stay overnight in Steinaker State Park or Red Fleet State Park.

## **Tulane University**



News Home Home

# New student organization aims to support Latinas, underrepresented groups in geoscience

February 19, 2020 1:15 PM | Jasmine Davidson jdavids8@tulane.edu

Print to PDF



Tulane GeoLatinas is an undergraduate student organization that supports Latinas and other underrepresented groups by offering scholarships, research and travel grants, internships, networking opportunities, and mentorships. Members of GeoLatinas pictured left to right: Maricel Beltrán Burgos, president, Lizmar Rodriguez-Lugo, treasurer, Betina Brockamp, vice president, and Nicole Gasparini, PhD, co-founder and Tulane associate professor. (Photo by Sally Asher)

The geosciences field in the U.S. is historically dominated by white men, but in recent years, there have been significant gains in terms of gender balance. For example, the National Science Foundation's 2018 survey reported a 55.8% increase in women earning geoscience doctorate degrees since 2009. Likewise, a 2019 report from the American Geosciences Institute showed an increase in women's participation in geoscience occupations from 22.5% in 2005 to 33.1% in 2018. However, despite these strides, racial disparities continue to persist. The same 2018 survey from the National Science Foundation revealed that white women received significantly more doctorate degrees than women of color.

In 2018, three Latinas connected on Twitter to address this disparity in their community. These women were Clara Rodriguez, PhD, an exploration geoscientist at Schlumberger; Rocio Caballero-Gill, PhD, a Brown University research assistant; and Adriana Crisostomo-Figueroa, a PhD student at the University of Leeds. Together, they developed GeoLatinas, an organization that would support and empower Latinas to pursue geoscience careers by providing resources, job opportunities, community and more. Their organization quickly garnered online support from other Latinas and allies.

Today, GeoLatinas has more than 100 active members in 18 countries and three local teams throughout the Americas. One of those teams is located at Tulane University.

Tulane GeoLatinas was founded in 2019 by Rodriguez and Nicole Gasparini, PhD, a geomorphologist and associate professor in the Department of Earth and Environmental Sciences at the Tulane School of Science and Engineering. As an undergraduate student organization, it supports Latinas and other underrepresented groups by providing information on scholarships, research and travel grants, and internships, as well as offering networking opportunities and mentorships. It also provides a safe space for Latina students to relax and connect with other Latinas. For Lizmar Rodriguez-Lugo, the Tulane GeoLatinas treasurer, this sense of community is what makes the organization special.

"The impact of GeoLatinas — it's not only an organization. It's the support we show to each other," said Rodriguez-Lugo. "When I see purple now, I think about GeoLatinas. That color means something to me now. It means support. Power."

In addition to serving the Tulane community, the organization also participates in community outreach. In September 2019, GeoLatinas members hosted a geology table with the New Orleans Geological Society at the Louisiana Girl Scouts science fair. Likewise, Tulane GeoLatinas frequently volunteers with <a href="Boys at Tulane">Boys at Tulane</a> in STEM (BATS) and <a href="Girls in">Girls in</a> STEM at Tulane (GiST), two programs that provide fifth through seventh grade students with the opportunity to meet and work with professionals in science, technology, engineering, and mathematics (STEM).

Maricel Beltrán-Burgos, Tulane GeoLatinas president, stresses the importance of this volunteer work.

"For me, I think it was great to not only have girls but also boys," said Beltrán-Burgos.

"Seeing women giving these lectures and talks — that's another way of learning that we can all be in the same environment, no matter where we come from or if we are women or men."

In the future, Tulane GeoLatinas plans to have more activities and community outreach, including bringing in more seminar speakers, providing more professional and personal development opportunities for members, establishing weekly GeoLatina meetings, and fundraising for Puerto Rico to help those affected by the recent earthquakes.

## UT News: The University of Texas at Austin

The University of Texas at Austin

JULY 28, 2020

**UT NEWS** 

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O Mar 05, 2020

# At Texas Memorial Museum, events such as National Fossil Day fulfill mission of community outreach

Bv: Saba Rahimian



Just east of San Jacinto Boulevard on The University of Texas at Austin campus, dual grand stairways flank a steep lawn topped with what seems to be a monolith. Five boys from Lakeway Elementary School laugh as they jump between bone-shaped seats modeled after a mosasaur's vertebrae.

Through the grand doors of the Texas Memorial Museum — which bills itself as Austin's first science museum — a small team of staff members and volunteers was leading activities and identifying specimens as part of National Fossil Day.

"Not only does paleontology inform us about life in the past, it can inform us about life today. ... It gives us this beautiful continuum of time," says Pamela R. Owen, the museum's associate director.

National Fossil Day, which takes place annually in October, was started by the National Parks Service and partner institutions nationwide in 2010. But the university's natural history museum has long opened its doors to amateur fossil collectors who want to know more about their finds. The museum held its first Identification Day in January 2000, founded by Dianne Folkerth, the education coordinator from 1999 to 2005.

"I found an old photo of myself from 2000 sitting at one of the tables, so I've been doing fossil IDs for the public for quite some time," Owen says.

Owen moved from California to attend UT Austin in the fall of 1992. She graduated with a doctoral degree in geological sciences, with an emphasis in vertebrate paleontology, in the spring of 2000, then worked as collections manager for the Vertebrate Paleontology Laboratory until 2003. She was senior paleontology/biodiversity educator at the museum from 2003 to 2014 before becoming associate director.

As a student, Owen spent more of her time at the J.J. Pickle Research Campus, which still houses most of the university's paleontological and geological collections. But even then, Owen says she took the time to engage with outreach opportunities at the museum. She volunteered for the first Identification Day and helped with organizing collections.

"Fossils are all over Central Texas," Owen says. "People that walk along creek sides or road cuts will find them. I laugh because the kids here can walk any creek, like Shoal Creek, and they just scoop up fossils. We didn't have that in California."

During the most recent National Fossil Day, Owen took off her administrative hat and prepared to educate visiting schoolchildren and other members of the public about the work of a paleontologist. She attached a camera to her binocular scope so that visitors could get a better look at what she was examining with a small set of tweezers.

"This is a sample bag from a site called Cathedral Cave out in Nevada. We're looking at the last ice age," Owen says. "A lot of the primary research is done, but there's still plenty of these bags of cave matrix to go through, so we can do what we call picking."

Ben Grall, the museum's visitor services manager, sold tickets and gave guests a quick rundown of what they would find on each floor. Michael R. Fallon, the museum security guard, was on duty, and Laura Naski Keffer, senior administrative associate, continued to work behind the scenes.

Owen also has trained 31 volunteers over the years.

John Tate, a volunteer for two years, manned a table on the museum's first floor as families circled about and Lakeway Elementary students fired off questions about the dinosaur and armadillo exhibits that towered above them.

Tate is a UT alumnus and a former state employee who says that after he retired, he wanted to reconnect to subjects he was passionate about in college. Tate earned a degree in philosophy; during that time, he took classes in the philosophy of science and developed an interest in evolutionary theory.

"I don't really know the details of paleontology except what I've learned since I've come here, but I understand evolution," Tate says.

On the table in front of him rested what looked like a piece of petrified wood, or a smoothed, brownish-amber rock with divots across the top. Tate pointed to different parts of the fossil while wide-eyed Wyatt Stutsman, 7, of Manor listened, eager to chime in.

"The mammoth's tooth is kind of flat, and it's really tall because the mammoth ate grass. And grass has silica in it. And so if you eat grass all the time, it wears down their teeth," Tate says.

Wyatt jumped in to tell Tate he has one at home that is "this" wide — he held his hands about a foot apart. He told Tate it was from a newborn mammoth.

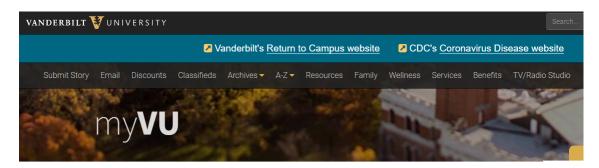
"I still have it. My grandpa gave it to me," Wyatt says.

In addition to National Fossil Day and Identification Day, the museum team and volunteers offer community events such as Texas Wildlife Day, Pop-up Naturalists Art Studio, story times and other hands-on activities for children. Off campus, the museum has collaborated with the Austin Nature & Science Center and with Zilker Botanical Garden's Hartman Prehistoric Garden.

"I like bones," laughs Owen. "Some days I think, wow, look at these millions of years of history, look at all this diversity, and other days I will be walking around in here thinking we've got decades of work that we are making available to the public. It's a sense of pride. I have the opportunity, and I'm blessed to be a caretaker of these wonderful treasures."

# 44 I LAUGH BECAUSE THE KIDS HERE CAN WALK ANY CREEK, LIKE SHOAL CREEK, AND THEY JUST SCOOP UP FOSSILS. WE DIDN'T HAVE THAT IN CALIFORNIA.

#### Vanderbilt University



# Vanderbilt paleontologists host National Fossil Day event for kids Oct. 10

by Marissa Shapiro Oct. 2, 2020, 3:00 PM

Sabertooth cats, marine reptiles, ancient whales and bizarre creatures of the past are just a few of the fun fossils Vanderbilt University paleontologists will discuss with kids during a free virtual National Fossil Day event on Saturday, Oct. 10 at 10 a.m. CT. Registration is required.

The event will feature paleontologists from Vanderbilt University's departments of biological sciences and Earth and Environmental Sciences at Vanderbilt University, including Larisa DeSantis, Rachel Racicot, Neil Kelley, and Simon Darroch.

As part of Vanderbilt 's Evolutionary Studies Initiative the scientists will discuss the creatures they study and how they became fascinated by fossils. Participants will be able to submit questions in advance as well as ask questions during the event. The event is open to school-aged kids and lifelong learners.

DeSantis grew up visiting the La Brea Tar Pits and the Natural History Museum in Los Angeles. Now she studies some of the most notorious predators of the past, including sabertooth cats, dire wolves, and marsupial lions. Her work involves the study of modern, historic and fossil mammals to decode the ecology of predators and their prey and clarify the impacts of climate change.

Racicot has been interested in paleontology ever since she was five-years-old and her favorite dinosaur was Pachycephalosaurus. After becoming fascinated by the



Larisa DeSantis searching for fossils in Australia (Larisa DeSantis)

unique skull shapes of whales, she now researches the evolution of dolphins and whales using CT scans to look at inside fossils, bones, and more. Studying the interior anatomy of animals helps researchers understand the evolution of the brain and senses, shedding light on topics like how dolphins developed echolocation.

Kelley studies ancient reptiles that ruled the oceans during the time of the dinosaurs. He grew up collecting fossils, rocks and anything else that caught his eye. Today, he searches for fossils in the deserts of Nevada and the mountains of California.

Darroch grew up on top of 80 million-year-old chalk in West Sussex, southern England, and found his first sponge fossil at the age of nine. He didn't find any more fossils for the next 10 years, and so decided to become a paleontologist. He now works on enigmatic 550 million-year-old fossils that represent the oldest complex organisms on Earth, and potentially the



Rachel Racicot with beluga Juno at Mystic Aquarium, CT. (Simon Darroch)

ancestors of all modern animals. Studying these fossils not only helps advance understanding of why complex life evolved when it did, but also the likelihood of finding life on other planets.

OPEN FOR BUSINESS: COVID-19 UPDATES AND RESOURCES



THINGS TO DO EVENTS HOTELS DINING PLAN BLOG BIGD HOLIDAY



#### EXPLORE THE NEWLY REOPENED PEROT MUSEUM OF NATURE AND SCIENCE.

POSTED ON OCT 13, 2020 BY DAVID C JUSTIN

 $\label{thm:control_problem} \text{Did you know that a near-complete } \textit{Tyrannosaurus rex fossil recently sold at auction for a record-breaking \$31.8 million? \textit{Stan the T.} \\$ rex, discovered in 1987 outside of Buffalo, South Dakota, is one of the most complete T. rex fossils ever found.

While \$32 million might be a little out of your budget, the good news is that you don't need to be a millionaire to see T. rex in real life. All you have to do is visit the recently reopened Perot Museum of Nature and Science.

Located on Level 4 of the Perot Museum, the T. Boone Pickens Life Then and Now Hall features towering dinosaurs, rare fossils and virtual paleo-habitats that give you an up close and personal look at life when dinosαurs ruled the Earth!

The hall is filled with casts of the fossilized remains of prehistoric animals of all shapes and sizes including the gargantuan Alamosaurus, the aquatic Tylosaurus, and the species discovered by Perot Museum paleontologists, Pachyrhinosaurus perotorum.

And who could forget the 'king of the tyrant lizards' - Tyrannosaurus rex!

In fact, you can test your athletic prowess by racing a digital version of T. Rex in the Lamar Hunt Family Sports Hall to see if you have what it takes to survive the Cretaceous. (SPOILER ALERT - you don't.)

To get a sense of what it's like to be a real paleontologist, stop by the Paleo Lab to observe the real-time processing of fossils fresh from the field. If you're lucky, you might even witness history being made as the Perot team has made several big discoveries within the doors of this very lab, including Nanuqsaurus hoglundi, the polar tyrannosaur that greets guests from atop the Paleo Lab.

The Perot Museum is open Thursday to Saturday, 10 a.m. to 5 p.m.; and Sunday, 11 a.m. to 5 p.m. Tickets are \$20 for adults (13-64), \$13 for youth (2-12) and \$18 for seniors (65+). Tickets must be purchased online before you visit and are based on timed entry to help follow COVID-19 capacity guidelines. For more COVID-19 information, including their health and safety guidelines and a list of exhibits currently closed, visit the museum's website.

ARTS & CULTURE CHILDREN & FAMILY

## Wane 15 News



**LOCAL NEWS** 

# Fox Island Park celebrates National Fossil Day with fossil pile





by: Corinne Moore

Posted: Oct 14, 2020 / 09:54 PM EDT / Updated: Oct 14, 2020 / 09:54 PM EDT

FORT WAYNE, Ind. (WANE) – Oct. 14 is National Fossil Day, and Fox Island County Park hosted a Fossil Pile to celebrate.

Folks of all ages had the chance to dig up different rocks and artifacts they found in the park. Any treasures discovered were "finders keepers."

"It's education outside, outdoors, out in nature and so, you can see how young these kids are. And if you can start them off young, then that's just a very positive thing," said Naturalist Jeff Ormiston, environmental educator for Allen County Parks and Rec.

More information on the park can be found on the Fox Island County Park website.

#### WCSC News 5



#### INVESTIGATE NEWS WEATHER TRAFFIC SPORTS

NEWS

# New dinosaur exhibit unveiled at the College of Charleston



By Abbey O'Brien | October 6, 2020 at 3:07 PM EDT - Updated October 6 at 6:51 PM



CHARLESTON, S.C. (WCSC) - Staff with the <u>College of Charleston's Mace Brown Museum of Natural History</u> unveiled three, large skulls on Tuesday morning.



"This is our triceratops," assistant professor and head curator at the museum Scott Persons said as he took down the tarp. "It's a massive skull from the badlands of Wyoming!"

The new exhibit includes a triceratops skull and a skull from the world's largest tyrannosaurus. The museum's gallery has been closed due to COVID-19 but anyone is able to visit this part of the exhibit. It's located on the second floor of the College of Charleston's School of Sciences and Mathematics at 202 Calhoun Street.

"These are spectacular specimens and the reason that they are going out on display not in the museum gallery proper is because they're just so big," Persons said. "This represents a major expansion for the museum and with the Mace Brown being closed during the pandemic, we've been spending our time planning for some expansions and renovations."

The skulls came from the American west and the Canadian west.

"They came along with me," Persons said. "That was part of my hiring deal at the College of Charleston, that we get some money to do an expansion of our dinosaur displays because that's what I work on."

Staff are working on a new, online tour for people to view the other exhibits virtually. It will debut on October 14 which is also National Fossil Day. You will be able to find the video tour on the school's YouTube page.

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## Weatherford Democrat





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Mineral Wells News

# Guests 'dig in' at Crazy Fossil Dig

By Halle Strum Special to the Weatherford Democrat Oct 21, 2020









MINERAL WELLS - National Earth Science week was celebrated by all ages Saturday, Oct. 17 at the 20th Annual Crazy Fossil Dig at the Mineral Wells Fossil Park, which included fossil displays and a scavenger hunt.

Special guest Lee Higgenbotham, a paleontologist from Dallas, spoke of identifying fossils and the prehistoric times of the area. The fossils found in the park are around 300 million years old, dating back to the Pennsylvanian era when Texas was part of the sea.

"It makes me happy this park is a resource for so many folks and families," Higgenbotham said.

## West Philly Local



#### Ask the Scientists: Ancient "-ologies"

October 17, 2020 1:00 pm

#### Penn Museum

October 17, 2020 1:00 pm Add to calendar



What does a paleontologist study? What does an archaeologist do? Why are there no mummies in Jurassic Park? Why doesn't Indiana Jones have dinosaurs? Join us to find out the REAL who, what, where, why and when of your favorite "ology," paleont- or archae-! Meet scientists from the Academy of Natural Sciences and the Penn Museum, and "dig up" why two scientific studies with similar techniques may be totally different. Featuring Dr. Meg Kassabaum of the Penn Museum and Dr. Ted Daeschler of ANS. This program is part of International Archaeology Day.

Ask the Scientists is a fun, interactive program where kids lead the conversation! While kids of all ages are welcome, adult assistance is recommended to enable virtual questioning.

Megan Kassabaum, Ph.D., is an archaeologist and Weingarten Assistant Curator in the American Section. She excavates at prehistoric Native American sites in the southeastern United States, especially those at which past people constructed large, earthen monuments called "mounds." Her studies of these sites examine questions of ritual and religion, food and feasting, and the use of ceramic technology.

Ted Daeschler, Ph.D., is a vertebrate paleontologist at the Academy of Natural Sciences of Drexel University. His research interests are centered on vertebrate fossils from the Late Devonian Period (390 to 360 million years old), including the origin of limbed vertebrates. This research program includes fieldwork in Devonian-age rocks in Pennsylvania, the Canadian Arctic, and Antarctica.

Free to Registered Guests

Register here: https://www.penn.museum/calendar/572/ask-the-scientists-ancient-ologies

#### Westword

AA



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Powhowayah State Dark Visitor Contor

Roxborough State Park Visitor Center

Colorado Parks and Wildlife is sponsoring special programs for International Archaeology Day, starting with a lecture by Jack Warner at 9 a.m. and again at 10:30 a.m. on life in the Roxborough and Hogback area

over the last 15,000 years; they'll be followed by an archaeological walk-

and-talk program at 10:30 a.m. and again at noon. The programs are free, but you must sign up and pay \$9 for a daily park pass or show a valid

annual pass. Find out more here.

### White Mountain Independent





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POLICE

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OBITUARIES -**PUBLIC NOTICES** - ENTERTAINMENT -

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# Talk with Paleontologist at Petrified Forest National Park

Sep 25, 2020 💂 0



1 of 2

Paleontologist Phil Varela uses a microscope and small scraping tools to remove matrix from part of a fossilized metoposaur breast plate.

NPS photo



Petrified Forest National Park is excited to announce that park visitors can, once again, have the unique experience of talking with a park paleontologist while they work on fossils in the demonstration fossil laboratory.

The laboratory is currently viewable Thursday, Friday, and Saturday from 9 a.m. to 3 p.m. To ensure safety and social distancing, two-way radios are used for communication back and forth while the paleontologists and fossils are viewable through the laboratory window.

"The work that goes on inside the laboratory can be very exciting!" said paleontologist Diana Boudreau, "The fossils come to us covered in rock, called matrix, so as we remove the matrix we are revealing the bones of an animal, or animals, that haven't been seen for millions of years".

Current projects in the laboratory include making sure each fossil is padded and carefully stored in the museum collection and cleaning and preparing fossils for study and display.

The laboratory will also be open Wednesday, October 14th for National Fossil Day.

#### WJON AM 1240 FM 93.5



f SHARE ON FACEBOOK SHARE ON TWITTER

ST. CLOUD - This is Earth Science Week. The theme for this week is "Earth Materials in Our Lives".

**Sarah Gibson** is a professor who specializes in paleontology at St. Cloud State University. She says most people would be surprised how much we use the earth's materials every day.

Maybe you have granite countertops, that's an obvious piece of rock in your house. Things that you might not think about are for example our cellphones have like 75 or 80 different minerals that are mined from the earth and used in chip components.

A lot of research into our planet's past is being done right here in town at St. Cloud State University. She says there's saying that the past is the key to the present and the present is the key to the future. She says there's a lot to learn yet about a mass extinction event that happened 250 million years ago.

"

It killed about 95 percent of life own the planet, but of that we percent that survived it went on to diversisify and explode in terms of the number of species and all of the organismms that are here today as descendants of that five percent that survived it that mass extinction evet.

Geologists, meteorologists, paleontologists, and astronomers are all part of the Earth Sciences.

Students who graduate from the Earth Sciences program at SCSU can go into a wide variety of careers including the oil, gas and petroleum companies, surveying and land planning, metal mining companies, or working for government agencies like MnDOT or the DNR.



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SHARE ON FACEBOOK



**SHARE ON TWITTER** 

ST. CLOUD – The meteorology department at St. Cloud State University is very unique. It is the only meteorology program at any school in Minnesota. Graduates of the program are working for private companies, the National Weather Service, and television stations all across the country.

Professor **Tony Hansen** says the advances in weather forecasting have come a long way since the program began back in the late 1980s.

We had a couple of winter storms last year that were forecast five days in advance. Exactly where it is going to go and exactly how much snow it is going to produce those are harder questions but it's not bad and that's because the tools we have are so much better.

Hansen says it does get frustrating when he hears the long-running joke about weathermen being wrong all the time because he says the reality is they are actually pretty accurate.

He does say thunderstorms during the summer and fall are much harder to predict than the snowstorms in the winter.

There always has been and probably always will be an interest in the weather, especially in places like here in the Midwest where the weather is changing all the time. The weather can also play a role in a wide variety of businesses. Hansen says there has been a huge growth in weather forecasting in the private sector.

There are companies that do weather-related stuff for other companies. Back in the financial crisis, there was a little bit of a downturn in the weather business also, but then customers came back because they realized the weather did have an economic impact on their activities.

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This by the way is National Earth Sciences Week.

#### WKU Public Radio





## **New Species Of Shark Fossils Discovered At Mammoth Cave National Park**

f Share Tweet Email



Painting of ancient sea and marine life preserved at Mammoth Cave National Park. CREDIT JULIUS CSOTONYI

The fossils of at least six new species of sharks and close relatives have been identified at Mammoth Cave National Park. A team of paleontologists, cave specialists, and park rangers revealed their findings on Wednesday, National Fossil Day.

The fossils were found in the late 1990s in remote locations in the cave, but weren't identified until last November.

At least 40 different species of sharks have since been identified, including the 6 new

These newly discovered sharks and other specimens lived over 340 million years ago according to paleontologist John-Paul Hodnett. Back then, Mammoth Cave was a vast body of water. The cave started to form between 12 million and 14 million years ago. The cave is known for many ice age mammal fossils and ancient marine organisms.



Hear the audio version of Alana's story.

Hodnett is a shark fossil specialist from Maryland-National Capital Parks who helped identify the fossils within the cave walls.

Hodnett said the rare shark skeletal cartilage documented in Mammoth Cave has not been found anywhere else.

"We are literally just scratching the surface," Hodnett said. "This information and the specimen are just pouring out. So it's going to take time to process through all of it but we are excited from what we are seeing right off the bat."

The new fossils were discovered in areas that aren't accessible to the public. The team had to crawl along the cave floor at one point to access some of the fossils.

"I am absolutely amazed at the diversity of sharks we see while exploring the passages that make up Mammoth Cave. We can hardly move more than a couple of feet as another tooth or spine is spotted in the cave ceiling or wall," Hodnett said in a statement.



John-Paul Hodnett, paleontologist with Maryland-National Capital Parks and Planning Commission, inspects a rare preservation of fossilized skeletal cartilage inside Mammoth

CREDIT MAMMOTH CAVE NATIONAL PARK

"We are seeing a range of different species of chondrichthyans (cartilaginous fish) that fill a variety of ecological niches, from large predators to tiny little sharks that lived amongst the crinoid (sea lily) forest on the seafloor that was their habitat."

The search for new fossils in this part of the cave is ongoing. Hodnett said that he'll be taking multiple trips to collect more data.

Mammoth Cave is working with many organizations and institutions, including Western Kentucky University to help identify additional information on the shark fossils as well as their habitat.

Rick Toomey, a vertebrate paleontologist at Mammoth Cave and the cave resource management specialist, said since the fossils were discovered at a national park, they'll be protected so future generations can experience them.



Mammoth Cave National Park Cave Specialist, Rick Toomey, uses a small dental pick to collect a fossil from the walls of Mammoth Cave.

CREDIT MAMMOTH CAVE NATIONAL PARK

"The fact that it's here at the park keeps them from being exploited, being mined out, being sold as souvenirs. So, the parks are very important for protecting these types of resources," Toomey said.

Toomey said the same fossils could appear along roads near Interstate 65, but those specimens will be weathered away. He told WKU Public Radio that the cave is a unique place that keeps fossils intact for further studies.

There will be an exhibit for the discovery, but a date for the debute of that display has not been announced.

#### WNKY 40 News



## Mammoth Cave National Park celebrates National Fossil Day showing off shark fossils found in the cave system

October 14, 2020 by Lexi Schweinert



BOWLING GREEN, Ky. – You might be thinking sharks? In Kentucky? No way. But there's something special at Mammoth Cave National Park.

"This is amazing we gotta go see this, we gotta check this out," Maryland National Capital Parks paleontologist John-Paul Hodnett.

Wednesday is National Fossil Day. And at the park, shark fossils have been discovered.

"It's extremely exciting for us because this is actually a major paleontological discovery right here at Mammoth Cave. I would argue that this is probably one of the most prominent fossil shark localities right here in the central United States," said Hodnett.

The fossils a team of explorers found are some of the most diverse Mississippian shark fauna in North America. They were found in remote cave locations within the park during an ongoing paleontological resources inventory that began in November 2019.

At least 40 different species of sharks and their relatives have been identified, including six new species.

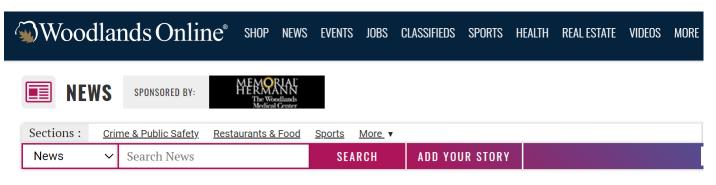
Cave Specialist Rick Toomey, said this discovery is special because they not only found teeth, but cartilage as well which is rare.

"Having these cartilage deposits is just really exciting, because it tells us things that we don't usually get to see when we just find their little teeth," said Toomey.

This will help educate people of the history of the park, and sharks, for years to come.

"This is, I would say, a very important resource for the community and I'm hoping as Mammoth Cave develops, the educational aspect of this discovery, people can come learn about what Kentucky was like in deep time," said Hodnett.

### Woodlands Online



NEWS / ENTERTAINMENT, ARTS & MUSIC / TOP 5 THINGS TO DO THIS WEEK IN THE WOODLANDS

# Top 5 Things to Do This Week in The Woodlands



THE WOODLANDS, TX -- Motivational quote of the week: "We cannot direct the wind, but we can adjust the sails." — Dolly Parton | Here's our pick of the top five things to do in The Woodlands this week:

<u>The Woodlands Family YMCA</u> Dragon Boat Team Challenge is a community event and local tradition. For 20+ years, the event has encouraged teamwork and fun while benefitting the YMCA Annual Campaign. The 2020 Event will be a "Virtual Team Challenge" providing teams an easy opportunity for "Social Distancing Fun" and friendly competition as well as keeping the tradition alive. Challenge Dates: October 12-23.

#### **EVENT LINK**

<u>Piney Rose Flowers & Décor's</u> Flower Arrangement Class is October 14 from 10:00 a.m. to 11:30 a.m. Come learn the basics of Garden-Style flower arranging and create your own garden-inspired flower arrangement. You will work with floral snips, foam, fresh flowers, and greenery!

#### **EVENT LINK**

Celebrate National Fossil Day at <u>The Woodlands Children's Museum</u>, October 14 from 10:00 a.m. to 12:00 p.m. Children will be up close to the museum's fossil collection and can learn how a fossil is formed! **EVENT LINK** 

The Woodlands Waterway Arts Festival is going virtual this year with an interactive, online format and celebration designed to bring the joy of fine art and fine crafts into the homes of art lovers in our community and beyond! The festival will kick off Wednesday, October 14 and continue through the weekend of October 17 & 18.

#### **EVENT LINK**

Join <u>Weygandt Law, PLLC</u> at their Wills & Whiskey in The Woodlands event for a free whiskey tasting October 14 at 6 p.m. Their Free Estate Planning 101 Seminar will run from 6:30 p.m. to 8:30 p.m. - sip some whiskey and learn what steps you can take to protect yourself, your loved ones, your assets, and your legacy.

#### **EVENT LINK**

#### WTNH News 8





NEWS WEATHER WATCH LIVE REPORT IT ON-AIR ABOUT US SPORTS CT STYLE JOBS OF THIS Weekend: Flashlight Corn Maze, Haunted Petting Zoo & Diaper Drive

by: Sarah Cody

Posted: Oct 16, 2020 / 07:01 AM EDT / Updated: Oct 16, 2020 / 09:11 AM EDT

Looking for weekend activities that are safe and socially distant? We have eight ideas!

Stroll through downtown Essex for a seasonal treat – The Scarecrow FestiFall – featuring homemade scarecrows, lining the street.

Enjoy fall by seeing every step in the production of a delicious autumnal beverage, made at C.F. Clyde's Cider Mill, a historic location.

Check out the flashlight corn maze at Brown's Harvest! Dress warmly, bring a flashlight, and order tickets online in advance.

Do the same at another evening event, The Haunted Petting Zoo at Flamig Farm. Also, find food trucks and spooky fun.

Saturday, celebrate International Archaeology Day at the Institute for American Indian Studies with games and family activities.

Contribute to a Food & Diaper Drive on Saturday, organized by the New Haven St. Patrick's Day Parade Committee, held at three locations: The Knight's of St. Patrick in New Haven, the IACC in East Haven, and the Elk's Club in West Haven.

Saturday evening, take-in the tunes of a local Grateful Dead All-Star Band! It's the last drive-in concert of the season at the Connecticut Post Mall.

Also, Saturday night, see Grammy nominee Joan Osborne, with special guest Stephen Kellogg, perform outside at the Ridgefield Playhouse.

Send information about future events to Sarah.Cody@wtnh.com.

Have a great weekend!

## WTVQ 36 News

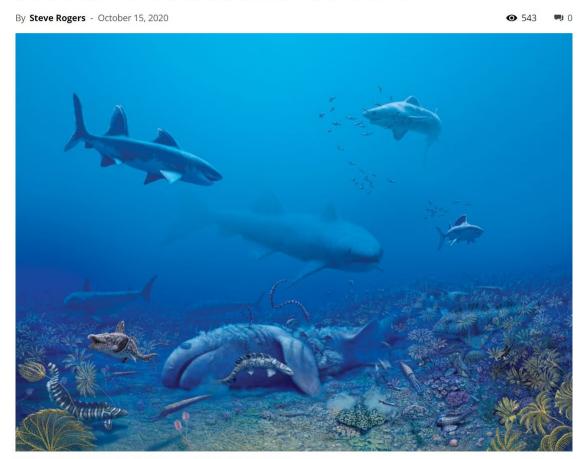




Home > News > Local News > Sharks, Fossils, and Caves: Secrets revealed at Mammoth Cave



# Sharks, Fossils, and Caves: Secrets revealed at Mammoth Cave



MAMMOTH CAVE NATIONAL PARK, KENTUCKY

The Mississippian age (325 MYA) ancient sea and marine life preserved at Mammoth Cave National Park.

Painting by Julius Csotonyi. NPS image

A team of paleontologists, cave specialists, and park rangers at Mammoth Cave National Park have discovered a trove of fossil treasures that has yielded one of the most diverse Mississippian shark faunas in North America. At least 40 different species of sharks and their relatives have been identified, including 6 new species. Rare preservation of three-dimensional skeletal cartilage documented in Mammoth Cave allows us to understand the anatomy and relationships of these ancient sharks.

The discoveries in remote cave locations in Mammoth Cave National Park were made during an ongoing paleontological resources inventory that began in November 2019. The Inventory goal is to identify the many types of fossils associated with the rock layers exposed outside and within the caves in the park. Several of the caves in the park were known to contain the fossil remains of ice age mammals in unconsolidated deposits and fossils of ancient marine organisms preserved within the limestones in which the caves developed.

The 325 million-year-old fossil-rich limestones of the Mammoth Cave System were formed during the Late Paleozoic, during a time period known to geologists as the Mississippian Period. The park staff reported a few fossil shark teeth exposed in the cave walls of Ste. Genevieve Limestone in several locations. Fossil shark specialist John-Paul (JP) Hodnett of the Maryland-National Capital Parks and Planning Commission was recruited to help identify the shark fossils, which were primarily teeth and fin spines. Since most of the skeleton of sharks is composed of cartilage, rather than bone, the skeletons of sharks are rarely preserved as fossils.

The fossil shark specialist, JP Hodnett, and park staff quickly discovered and identified many different species of primitive sharks from specimens in the rocks lining the cave passages in Mammoth Cave. Hodnett said,



JP Hodnett, paleontologist. NPS photo.

#### Xavier Newswire

## THE XAVIER NEWSWIRE

CAMPUS NEWS U.S. & WORLD NEWS ARCHIVE

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- . Bop, banger, jam: a
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- The good and the bad of
- Opinion: The price paid for
- Say their names.
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- . UC Football is good? Think
- . Swift's folklore: Bop or
- The Electoral College is

#### About Us

The Newswire was originally called The Xavierian Ne was founded by Xavier's law school in 1915.

the independent student newspaper of Xavier University

We serve the 5,000 students of Xavier in addition to the faculty. staff, alumni, and local community. It is an 8-16 page newspaper which covers campus news and events, Xavier athletics, the Cincinnati arts scene, and events in the Cincinnati area. Circulation of the paper is 1.800, and the paper vailable for free at ma locations on Xavier's campus.

Wednesdays. Staff meetings are on Thursdays. Anyone is me to attend. Contact us

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#### U.S. & WORLD NEWS

### New fossils founds in Kentucky

BY: ERIN ALBRIGHT, Staff Writer



Photo courtesy of @GPTPhotography via creativecommons.org

Six new species of sharks have been discovered at Kentucky's Mammoth Cave National Park. The fossils of sharks and other close relatives were found on National Fossil Day

A team of paleontologists, cave specialists and park rangers made their findings last Wednesday in areas that aren't accessible to the public. At one point, the team had to crawl along the floor to access some of the fossils.

Besides the Mammoth Cave team, organizations and institutions are also working to identify the shark fossils, one of these institutions being Western Kentucky University.

The sharks and other specimens lived over 340 million years ago, during the Mississippian Period, when Mammoth Cave was a vast body of water. In the 1990s, paleontologists had started finding shark teeth and other fossils, but no one had found any other shark fossils from this layer of excavation until now. Each layer underground reveals a different year filled with new shapes and sizes of discoveries.

The shark fossil finding is all the more impressive due to shark skeletons being composed of cartilage instead of bone, meaning they are rarely preserved in fossil records underground.

Paleontologist John-Paul Hodnett who is working on the Mammoth Cave Team said, "I am absolutely amazed at the diversity of the sharks we see while exploring the passages that make-up Mammoth Cave. We are literally just scratching the surface. It's going to take time to process through all of it, but we are excited from what we are seeing right off the bat."

Paleontologists have identified more than 40 different species of sharks at Mammoth Cave in the past

"We can hardly move more than a couple of feet as another tooth or spine is spotted in the cave or ceiling or wall," Hodnett said.

The search for new fossils is ongoing and the team will be making multiple return trips to collect more data. Since they were found at a national park, the fossils will be protected for future generations.

Mammoth Cave began to form between 12 and 14 million years ago. It is known for housing many ice age mammal fossils, as well as ancient marine organisms

There will eventually be an in-person exhibit for the discovery, as well as 3D reconstructions, photos and artist renditions for visitors to enjoy.





No Instagram images were found.