MEMO

PALEO NEWS

RANGER TRAINING

DINO DOSSIER

RESOURCES

www.mm.mm.

2025 IS STARTING OFF WITH A BANG!!

IN THE LAST FEW WEEKS WE'VE NOT ONLY GOTTEN THE TRAILER FOR THE

NEXT ENTRY IN THE JURASSIC FRANCHISE, JURASSIC WORLD REBIRTH,

BUT ALSO OUR FIRST IMAGES FROM THE NEW WALKING WITH DINOSAURS

SERIES THAT'S COMING THIS SUMMER, WE'VE CELEBRATED THE 200TH

ANNIVERSARY OF IGUANODON'S DESCRIPTION, AND OF COURSE THERE HAS

BEEN LOADS OF OTHER NEW PALEO NEWS AND RESEARCH (I SERIOUSLY AM

JUST PLAYING CATCH-UP AT THIS POINT, NOT EVEN ABLE TO FIT

EVERYTHING IN JUST THESE FIRST TWO ISSUES!)

SPRING TIME IS ALSO WHEN SEVERAL MUSEUMS WILL BE HOSTING SOME REALLY GREAT PALEO-RESEARCH SYMPOSIUMS LIKE PALEOFEST AND DINOS & MOR. SOMETHING ADDED TO THIS ISSUE IS A LISTING OF SOME LIVE AND VIRTUAL PRESENTATIONS COMING UP THAT I HOPE PEOPLE ENJOY! I'M LOVING THAT SO MANY INSTITUTIONS ARE STRIVING TO MAKE RESEARCH AND EDUCATION SO ACCESSIBLE TO THE PUBLIC IN SO MANY WAYS.

ESPECIALLY NOW...

-).

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FOSSILIZED BONES RECENTLY EXCAVATED IN TAIPINGGANG, SIHUI CITY, GUANGDONG PROVINCE, ARE NOW BELIEVED TO FROM A LAMBEOSAURINI (A SUBFAMILY OF PLANT-EATING HADROSAUROIDEA (COMMONLY KNOWN AS "DUCK-BILLED" DINOSAURS, AND TYPICALLY ADORNED WITH IMPRESSIVE HEAD ORNAMENTATION.) THIS WOULD BE THE FIRST LAMBEOSAURINE FROM SOUTH CHINA. THE REMAINS INCLUDE SEVERAL LIMB BONES, AS WELL AS DORSAL AND CAUDAL VERTEBRAE. PAPER CO-AUTHOR XING LIDA STATES THAT " ... [THE FIND] REPRESENTS THE ONLY EVIDENCE SUGGESTING A POTENTIAL MIGRATION OF NORTH AMERICAN DINOSAURS TO THE REGION IN LATE CRETACEOUS," Read More



ART BY ZUBIN ERIK DUTTA

A NEW OVIRAPTOR SPECIES, EQNEOPHRON INFERNALIS ("DAWN NEOPHRON") FROM SOUTH DAKOTA, HAS BEEN DESCRIBED. RESEARCHERS STUDIED THE MICROSCOPIC ANATOMY AND DIFFERENCE BETWEEN THE NEW FOSSIL MATERIAL WITH PREVIOUSLY DESCRIBED OVIRAPTORS FROM THE AREA, LIKE ANZU, CONCLUDING THAT THE SPECIMEN REPRESENTS A NEW SPECIES OF CAENAGNATHID FROM THE HELL CREEK.

Read More

ONE OF "STROMER'S LOST EGYPTIAN DINOSAURS" HAS BEEN RE-EVALUATED AND DESCRIBED AFTER IMAGES WERE REDISCOVERED IN THE HYENE ARCHIVE AT THE UNIVERSITY OF TÜBINGEN (GERMANY.) THE ORIGINAL FOSSIL WAS UNFORTUNATELY DESTROYED DURING WORLD WAR 2, BUT THE NEW IMAGE AND A PHOTOGRAPH OF THE MAXILLA IN MEDIAL VIEW ARE USED TO COMPLEMENT THE DESCRIPTION OF THE SPECIMEN, AS WELL AS TO VERIFY STROMER'S OWN NOTES. NAMED TAMERYRAPTOR MARKGRAFI (MEANING "THIEF FROM THE BELOVED LAND",) THE CARCHARODONTOSAURID WAS ABOUT 8-9 METRES (26-30 FT) IN LENGTH, AND HAD A HORN-LIKE PROTUBERANCE ON ITS SNOUT.

Read More



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NEW IN-DEPTH ANALYSIS OF SOFT TISSUES OF JURASSIC

PLESIOSAUR HAS FOUND THAT THE MARINE REPTILE APPEARS TO

HAVE SCALE-LIKE STRUCTURES SIMILAR TO SEA TURTLES!

WHILE THE SPECIMEN WAS FOUND IN 1940, IT WASN'T PREPPED

UNTIL 2020 - 75 YEARS LATER. THE SHALE (A FINE-GRAINED

SEDIMENTARY ROCK FORMED FROM MUD) THAT THE ANIMAL WAS

PRESERVED IN ALLOWED FOR EXCELLENT FOSSILIZATION, ENOUGH

THAT RESEARCHERS WERE ABLE TO FIND WHAT LOOK TO BE SKIN

NUCLEI UNDER A MICROSCOPE.

Read More



ART BY JOSCHUA KNÜPPE



A NEW SPECIMEN OF LATOPLATECARPUS WILLISTONI HAS

BEEN EXCAVATED AND DESCRIBED. LATOPLATECARPUS BELONGS

TO SUBFAMILY OF MOSASAURIDS CALLED THE

PLIOPLATECARPINAE, WHICH WERE WIDE-SPREAD IN THE

OCEANS AND INTERIOR SEAWAYS OF THE LATE CRETACEOUS. THE

PARTIAL SKELETON WAS EXCAVATED FROM THE PIERRE SHALE

IN SOUTH DAKOTA.

MEMO

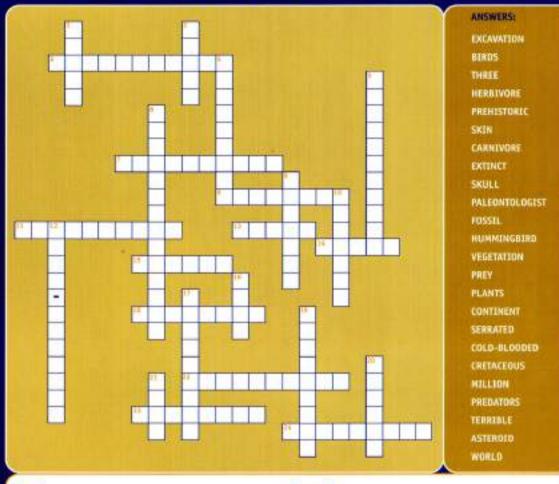
PALEO NEWS

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FIELD RESEARCH:



DOWN

- Directours lived in the Mesozoic Era. The Mesozoic Era consisted of worlds, the Triasric, the Jurantic and the Cretareous.
- The Triansic consisted of one giant continent called Pangana and one ocean called Panthalansa.
- 4. The Janusic world came when the one giant ______ split
- If birds can be classified as dinosaurs, then the tiniest dinosaur found teday is the Bee of Cubu. This dinesaur is not much larger than a bumblehen.
- 6. A is what you call a scientist that
- studies dinesaurs.
- 8. Binosaus first appeared ever 230 ______ years ago.
- 10. Dinocaurs became 65 million years ago.
- Birds, mammais and humans are warm-blooded, (their body temperature remains the same). Septilies are This means their body temperature varies.
- Dinosaur does not feasilize, but impressions in rock show that must disosaurs had pebbly scales. (Bint: It covers your boses).
- An was strictly a plant sater. They had to spend nearly all their time feeding just to ctay alive.
- A eats meet. They had large points, shorp teeth.
 One example is the Tyraneossurus Rex. He measured up to 30 feet tall and weighed up to 6 tons.
- 20. Bertheoreus directurs evolved into four-legged creatures using their stout legs for standing to est ______ and leaves.
- 21. Carnivorus dinosaus tended to have shorter arms than legs, evolving from two-legged assestors that used its arms for grabbing

Trains.

- is the era preceding recorded history.
 Planet Earth was different—the climate was hotter and the land was covered by deserts and fem-like vegetation.
- Shallow seas divided continents into separate islands. This was called the world and looked similar to our world today.
- 9. In 1842 Richard Own coined the name dinessar, which meant Lizard. (Hint: It's not mice).
- 11. Teams of paleontologist dig to remove diseasor remains. This is called
- 13. Like yours, a dinessur's protected its brain and heased organs for sight, small and hearing.
- Most scientists now believe that not all dinosaurs became extinct, are believed to be descendants of small continuous diseasors.
- We know so much about disosours because of remains. (Mint: Bones and footprints found in rocks are good examples).
- No one really knows what caused the extinction of dinocauts. Some scientists believe it was caused by a sudden catastrophe, such as a minute corner or collision.
- 22. Herbivorous dinosaurs were geared to eating
- Combones discours had massive jaws operated by powerful muscles, and their teeth had edges like a saw.
- 24. had large fangs and claws—they would use these to proy upon other dinocaurs.

ANSWERS ON PAGE #9



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CLADE NEOTHEROPODA (SEE BELOW)

LENGTH 6-7.7 M (20-25 FT)

WEIGHT 525 KG (1,200 LBS)

LOCATION ANTARCTICA

SPECIES ELLIOTI

HEIGHT 1.5-2 M (5-6.5 FT) AT THE HIPS

DIET CARNIVORE

TIME PERIOD 189-180 MYA
(EARLY JURASSIC - SINEMURIAN OR
PLIENSBACHIAN)

NOTES: ("KRY-OH-LOAF-OH-SAW-RUS")

EXCAVATED FROM THE HANSON FORMATION IN ANTARCTICA IN THE EARLY 90S, CRYOLOPHOSAURUS ELLIOTI IS ONE OF THE LARGEST THERAPODS FROM THE EARLY JURASSIC, TO DATE.

WHILE BEING THE FIRST THEROPOD DINOSAUR DISCOVERED IN ANTARCTICA MIGHT BE "COOL" ENOUGH, THIS DINOSAUR IS MOST FAMOUSLY KNOWN FOR ITS IMPRESSIVE HEAD ORNAMENTATION.

THE PARTIAL SKULL MATERIAL EXCAVATED INCLUDES A PAIRED CREST LIKE STRUCTURE THAT RUNS TOWN THE SNOUT OF THE ANIMAL AND INTO A LARGE TRANSVERSE CREST (OR "FANNED OUT" (THINK SIMILAR TO SOME GREEK AND ROMAN HELMETS)) STRUCTURE.

IMAGE KEY

CRYOLOPHOSAURUS CONCEPT ART FOR WARPATH: JURASSIC PARK BY MATT HALL (UPPER CENTER)

MATTEL'S SECOND JURASSIC WORLD CRYOLOPHOSAUR FIGURE (UPPER LEFT)

CRYOLOPHOSAUR ON DISPLAY AT THE FRYXELL MUSEUM (ROCK ISLAND, IL) (UPPER RIGHT)

CRYOLOPHOSAUR ART BY ROBERT WALTERS (BOTTOM RIGHT)

CONTINUE



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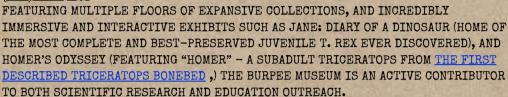


MUSEUM MUSTS

BURPEE MUSEUM OF NATURAL HISTORY

737 N MAIN ST, ROCKFORD, IL 61103

(815) 965-3433



EACH MARCH, THE MUSEUM HOSTS <u>PALEOFEST</u>, NOW IT IT'S 26TH YEAR. PALEOFEST IS AN ANNUAL SYMPOSIUM WHERE THE BIGGEST AND MOST INFLUENTIAL NAMES IN PALEONTOLOGY SHARE AND DISCUSS THEIR LATEST RESEARCH AND FINDINGS WITH THE PUBLIC.



FEBRUARY 28 - MARCH 2, 2025



BURPEE ALSO OFFERS <u>VOLUNTEER OPPORTUNITIES FOR</u>

THEIR SUMMER PALEONTOLOGICAL DIGS IN BOTH UTAH
AND MONTANA, WORKING IN THE MORRISON AND HELL
CREEK FORMATIONS.

UPCOMING LIVE & VIRTUAL LECTURES

ENGELHARDT-MOORE LECTURE SERIES

MARCH 6: DR. JOSEPH PETERSON, UNIVERSITY OF WISCONSIN
BITE FORCE, FEEDING TRACES, AND ECOLOGY OF TYRANNOSAURUS REX THROUGHOUT ONTOGENY

ROYAL TYRRELL MUSEUM

FEBRUARY 20: CHRISTIANA GARROS, UNIVERSITY OF ALBERTA BROKEN, BRUISED, AND BITTEN: SURVIVAL TALES OF TYRANNOSAUR INJURIES

FEBRUARY 26: ANDRE GOGOL, PARKLAND SECONDARY SCHOOL EXPLORING METHODS IN FOSSIL PHOTOGRAPHY

MARCH 6: DARREN TANKE, ROYAL TYRRELL MUSEUM OF PALAEONTOLOGY ONGOING EPIC EXCAVATION OF THE KASKIE HADROSAUR SKELETON, ONE OF THE WORLD'S BIGGEST DINOSAUR QUARRIES, DINOSAUR PROVINCIAL PARK, ALBERTA

MARCH 13: LISA BOUCHER, UNIVERSITY OF TEXAS-AUSTIN FOSSIL PLANTS (TITLE TO BE CONFIRMED)

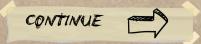
MARCH 20: KIERSTEN FORMOSO, RUTGERS UNIVERSITY
GOING FOR A SWIM: INFLUENCES OF TERRESTRIAL ANCESTRY ON LAND-TO-SEA TRANSFORMATIONS

MUSEUM OF THE ROCKIES

VIRTUAL FOSSIL FRIDAYS - EVERY FRIDAY AT 9 AM MST

UTAH FRIENDS OF PALEONTOLOGY

FEBRUARY 21 — DR. JOSH LIVELY TERRIFIC, TERRIBLE LIZARDS



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RECOMMENDED READS

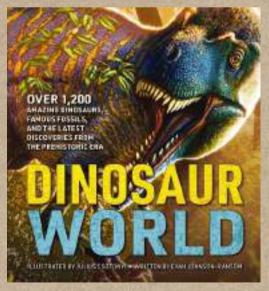


SHE FOUND FOSSILS

WRITTEN AND EDITED BY DR. MARIA EUGENIA LEONE GOLD, ABAGAEL ROSEMARY WEST ILLUSTRATED BY AMY). GARDINER

THIS INSPIRING BOOK LOOKS AT THE HISTORY OF PALEONTOLOGY AND HIGHLIGHTS MANY BRILLIANT WOMEN SCIENTISTS FROM VARIOUS BACKGROUNDS, DISPROVING ONCE AND FOR ALL THE SILLY NOTION THAT "FOSSILS IS FOR THE FEW." SOME OF THE MOST FASCINATING AND GROUNDBREAKING RESEARCH AND IMPORTANT DISCOVERIES HAVE BEEN MADE BY WOMEN, AND THIS BOOK DOES A WONDERFUL JOB AT NOT JUST HIGHLIGHTING MANY OF THOSE INDIVIDUALS AND THE STRIDES THEY'VE MADE IN PALEONTOLOGY.

AVAILABLE IN ENGLISH, ESPAÑOL, AND CHINESE, THIS IS A MUST HAVE FOR THOSE INTERESTED IN THE HISTORY OF PALEONTOLOGY AND THE WOMEN WHO MADE IT THE FIELD IT IS TODAY.



DINOSAUR WORLD

BY EVAN JOHNSON-RANSOM, ILLUSTRATED BY JULIUS CSOTONYI

DINOSAUR WORLD IS A GUIDEBOOK THAT HIGHLIGHTS 1,200 MESOZOIC SPECIES AND INCLUDES INFORMATION ON ANATOMY, DIET, HABITAT, AND ALL THEIR UNIQUE CHARACTERISTICS. IT ALSO PRESENTS THE LATEST IN SCIENTIFIC RESEARCH WHICH INFORMED THE CURRENT DEPICTIONS OF THE PREHISTORIC ANIMALS SEEN IN THE BOOK.

FEATURING JAW DROPPING PALEO ART, AND THE MOST UP TO DATE FACTS AND INFORMATION, IN A WORLD OF SO MANY OPTIONS WHEN IT COMES TO DINOSAUR GUIDE BOOKS, THIS IS ONE YOU CERTAINLY DO NOT WANT TO PASS UP.

CONTINUE



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JURASSIC FOUNDATION

FOUNDED IN 1998 BY UNIVERSAL STUDIOS AND AMBLIN ENTERTAINMENT, THE JURASSIC FOUNDATION IS A NON-PROFIT ORGANIZATION DEDICATED TO ADVANCING DINOSAURIAN RESEARCH AROUND THE GLOBE. TO DATE, THE FOUNDATION HAS DONATED NEARLY \$1 MILLION DOLLARS TO SCIENTISTS TO CONDUCT THEIR RESEARCH. RECENT PUBLICATIONS ON RESEARCH AIDED BY THE JURASSIC FOUNDATION CAN BE FOUND ON THEIR INSTAGRAM.

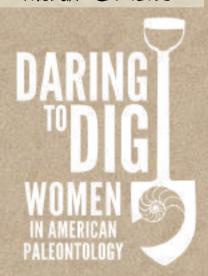
YOU CAN FIND OUT MORE ABOUT THE FOUNDATION, APPLY FOR GRANTS, AND GET IN CONTACT WITH FOUNDATION MEMBERS BY VISITING THEIR WEBSITE: <u>JURASSICFOUNDATION.ORG</u>

DOCUMENTARIES & SHOWS

DINO BIRDS - PBS NOVA

HOW DID BIRDS MANAGE TO NOT ONLY LIVE THROUGH THE APOCALYPSE, BUT ALSO GO ON TO DIVERSIFY AND POPULATE EVERY CORNER OF OUR PLANET? NOW, RARE FOSSIL DISCOVERIES ARE REVEALING THE SECRETS OF BIRD EVOLUTION GOING BACK MORE THAN 100 MILLION YEARS, TELLING THE STORY OF HOW SOME RESILIENT FEATHERED DINOS PERSEVERED AND TRANSFORMED INTO THE VAST ARRAY OF COLORFUL BIRD SPECIES THAT FILL OUR SKIES TODAY.

VIRTUAL EXHIBITS



DARING TO DIG: WOMEN IN AMERICAN PALEONTOLOGY

DARING TO DIG EXPLORES THE ACHIEVEMENTS, ADVENTURES, AND DISCOVERIES MADE BY WOMEN IN AMERICAN PALEONTOLOGY OVER THE PAST FEW CENTURIES. THIS EXHIBIT ALSO CONSIDERS THE PERSONAL AND SOCIETAL CHALLENGES THAT THESE PIONEERING SCIENTISTS FACED AND EXAMINES THEIR PROFESSIONAL ACCOMPLISHMENTS IN THE BROADER CONTEXT OF THE HISTORY OF PALEONTOLOGY AS A SCIENTIFIC DISCIPLINE IN THE UNITED STATES.

THOUGH OFTEN UNRECOGNIZED, THE WORK OF WOMEN HAS SHAPED THE FIELD OF PALEONTOLOGY AS WE KNOW IT TODAY. AS WOMEN MOVED INTO PROFESSIONAL SCIENCE, THEY ENCOUNTERED RESISTANCE AT EVERY LEVEL REQUIRED FOR SUCCESS: HIGHER EDUCATION, FIELDWORK, EMPLOYMENT, PAY, PUBLICATION, AND MEMBERSHIP IN PROFESSIONAL SOCIETIES. DESPITE THESE BARRIERS, PIONEERING WOMEN FOUND WAYS TO SURPASS STEREOTYPES, CIRCUMVENT OBSTACLES, AND FORGE NEW PATHS IN THEIR EFFORTS TO CONTRIBUTE TO THE SCIENCE OF PALEONTOLOGY.

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THANKS & ACKNOWLEDGEMENTS

THIS NEWSSLETTER WOULD NOT BE POSSIBLE WITHHOUT THE HELP AND SUPPORT OF THE FOLLOWING INDIVIDUALS:

DR. M. EUGENIA L. GOLD

CONOR O'KEEFFE

KELLY BRESNOWITZ

JACK DE LA MARE & THE ENTIRE OUTPOST TEAM

RANGER TRAINING CROSSWORD ANSWER KEY

FIELD RESEARCH

"FIELD RESEARCH"
CROSSWORD PUZZLE
FROM THE
JURASSIC PARK 3
DINOSAUR TRAINING
GAMES
PUZZLE BOOK

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