



Bryce Canyon National Park Geology Festival ACTIVITIES SCHEDULE

Bryce Canyon Geology with Wayne Ranney

What are the hoodoos made of, and how were they carved? Why is Bryce Canyon here and nowhere else? Why is it so different than Zion and the Grand Canyon? The answers will surprise and enchant you. Experience Bryce Canyon's geology first hand on a 3-mile moderately strenuous hike into the canyon. *Hiking shoes or boots required - bring water!*
8:30 – 11:30 AM Friday & Saturday
Meet at the General Store



Mossy Cave Hike

Join a park ranger for an easy 1-mile round-trip hike to the Mossy Cave waterfall and back. Learn what it means to be a "real canyon" and why most of Bryce cannot be truly considered a canyon. *Hiking boots or shoes required - bring water!*
9:00 – 10:30 AM Friday & Saturday
Mossy Cave Parking Area
Group size limited – free ticket required*

Geology Bus Tour

Join a geologist for a 3½ hr. roadside geology tour of Bryce Canyon. Tour departs from and returns to the Shuttle Boarding Area in Bryce Canyon City.
9:00 AM & 2:00 PM Friday & Saturday 
Reservations required**

Displays, Information, & Family Fun

See fossils millions of years old, learn about sedimentation and erosion, enjoy an adventure exploring a "cave", learn about Life in the Cretaceous Seaway - along with many other fun and educational activities for kids of *all* ages.
10:00 AM – 3:00 PM Friday & Saturday 
Visitor Center Plaza

Geology for Families

Hey Kids! Bring a parent or guardian and join in the fun by participating in learning activities and games that teach about Bryce Canyon's geology. Don't forget your Junior Ranger Books.
10:00 – 11:00 AM Friday & Saturday 
Group size limited, free ticket required*

Geology Talk

Join a park ranger for a 30-minute overview about how Bryce Canyon formed and the fate of this world famous landmark.
11:30 AM & 2:00 PM Friday & Saturday 
Meet at Sunset Point

Rim Walk

Join a park ranger for a leisurely 1-mile round trip walk along the rim of Bryce Canyon.
5:00 – 6:30 PM Friday & Saturday 
Meet at Sunset Point

***Obtain free tickets for the Mossy Cave Hike and Geology for Families events at the Bryce Canyon Visitor Center.**

****Reservations for the Geology Bus Tour may be made by calling 435-834-5290 or, in person, at the Shuttle Parking & Boarding Area in Bryce Canyon City.**

Afternoon Presentation

Join Dr. Larry Davis to learn about the ammonoids of the Cretaceous Interior Seaway.
1:00 PM - 2:00 PM Friday & Saturday 
Visitor Center Auditorium



Cretaceous Monster Food & the Search for a Living Fossil

**by Dr. Larry Davis,
Bryce Canyon National Park**

Ammonites are an important group of marine, shelled cephalopods (octopus and squid) and preyed upon by plesiosaurs and mososaurs in the Cretaceous Interior Seaway. The last species became extinct during the Cretaceous-Paleogene extinction event 65 million years. We have to look to a closely related group of shelled cephalopods, the nautiloids, to gain an understanding of ammonite biology. The Chambered Nautilus is a living, shelled cephalopod, which presently exists in the deep waters surrounding islands in the Indo-Pacific region. As a 'living fossil', the Chamber Nautilus provides paleontologists with a glimpse into the lives of extinct nautiloids and ammonites.



Evening Programs

Join special guest speakers Drs. Rebecca McKean and David Gillette, for these one-hour multimedia presentations.
7:30 - 8:30 PM Friday (McKean)
7:30 - 8:30 PM Saturday (Gillette)
Bryce Canyon Lodge Auditorium 

Under the Sea in Utah:

Plesiosaurs from an Ancient Ocean

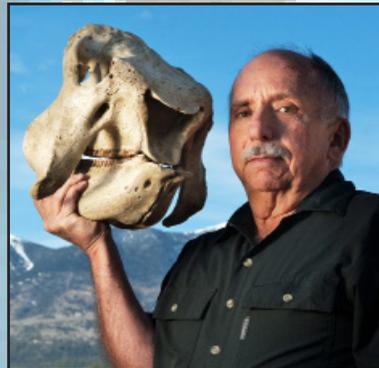


by Dr. Rebecca McKean,
St. Norbert College

About 90 million years ago, a giant shallow ocean full of terrifying predators covered parts of southern Utah. Plesiosaurs (marine reptiles) were one of the dominant predators in this

ocean, moving quickly through the water to gulp up fish and ammonites. What kinds of plesiosaurs do we find in Utah and what makes them unique? How do we know what plesiosaurs ate? And just why did some plesiosaurs swallow rocks? We will answer all of these questions and more as we explore Utah's plesiosaurs!

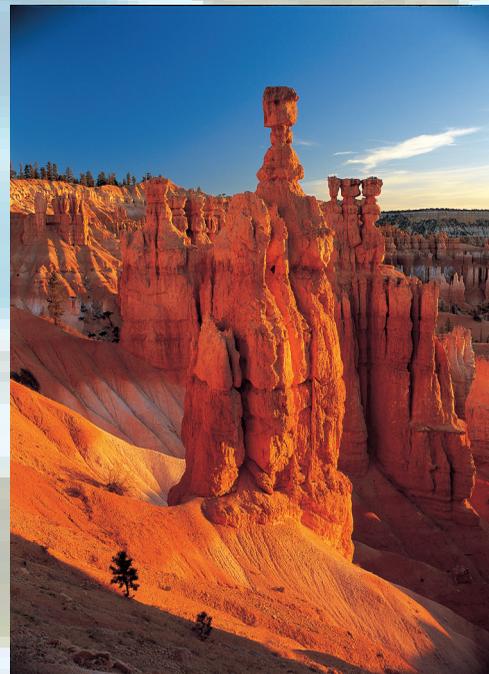
All the Other Monsters of the Deep Blue Cretaceous Sea



by Dr. David Gillette,
Museum of Northern Arizona

Besides awesome ammonites, naughty nautiloids, and pesky plesiosaurs, the Cretaceous sea in this area was home to mosasaurs, sea turtles, fish both enormous and some not

so enormous, lots of sharks, and even a strange potbellied dinosaur with feathers and claws that look like sickles. The saga of the 13-foot tall sickle-claw dinosaur, which lived on land but died at sea, is a bizarre tale that ends in some colossal mysteries: How did it come to rest in the dark muddy bottom of the Cretaceous sea? On which continent did we find its ancestors!



SPECIAL THANKS TO:

- Capitol Reef National Park
- Dixie National Forest
- Garfield County Travel Council
- Grand Canyon-Parashant National Monument
- Grand Staircase Escalante National Monument
- Grand Staircase-Escalante Partners
- Utah State Parks
- Zion National Park



BRYCE CANYON N.P. PRESENTS....

IT CAME FROM THE CRETACEOUS SEA



JULY 25-26

BRYCE CANYON GEOLOGY FESTIVAL 2014

STARRING
Dr. R. McKean, Dr. D. Gillette & Dr. L. Davis
St. Norbert College Museum of Northern Arizona Bryce Canyon N.P.

