

The
Joseph Andres Gutierrez
Earth Science Museum and Education Center



Who are we?




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How did we get started?

The Joseph Andres Gutierrez
Earth Science Museum and Education Center
Vulcan Materials Company North Quarry
4401 N Patterson Avenue
Winston-Salem, NC 27105
(336) 767-4600

At Vulcan Materials Company's
North Quarry
Winston Salem, North Carolina



How can you get a
closer look?



For more information about Vulcan visit our website:
www.vulcanmaterials.com



The Joseph Andres Gutierrez Earth Science Museum and Education Center

As a leading producer of construction aggregates in your community, **Vulcan Materials Company** is proud to offer educational tours of our facilities. We welcome the opportunity to talk with teachers, students, and community members about our industry, the mining process, and our commitment to environmental stewardship.

The Center

The **Joseph Andres Gutierrez Earth Science Museum and Education Center** is named in honor of Joe Gutierrez, a now retired Vulcan Chief Geologist. Joe started our earth science education efforts approximately 30 years ago. The Museum and Education Center has received state and national awards and is listed in the *Guide to Environmental Education Centers* in North Carolina. Vulcan opened the Museum and Education Center in 1993 to help share information

with area students and teachers about geology and mining, and their importance to our society.

Tours

Tours begin with a bird's-eye view of the quarry from our **Overlook**. Each aspect of the mining process is described as participants view the activities firsthand.

Following the overlook, visitors tour our **Core Sample Building** where they learn about geology and how exploration for new mineral deposits is conducted.

Finally, participants visit the **Mineral Museum and Education Center** to see and touch unique mineral and fossil specimens collected from around the world.

The collection includes a life size replica Tyrannosaurus rex skull and an authentic 1 year old baby

Psittacosaurus Dinosaur that has been cleaned of matrix. A complete dinosaur is a rarity, but a baby specimen is extremely rare! The Psittacosaurus was a small sized bipedal plant eating dinosaur that had a parrot-like beak with teeth.

In the **Hands-on Area** of the Museum and Education Center, visitors learn about the physical properties of minerals and rocks. At the conclusion of the tour, each visitor receives a souvenir rock sample.

Tours are offered to community and school groups.

For information or to schedule a group tour please contact us at the number below. You can use the same number to find out about our free video lending library collection that has been compiled for use by schools and civic groups.

Overlook at North Quarry



View of North Quarry from Overlook



North Quarry Plant



Hands-On Area



Collecting Samples



School Tour



Fossil Case



Mineral Cases



Baby Psittacosaurus Dinosaur



Tyrannosaurus Rex life-size skull replica



Museum and Education Center



Amethyst Geode from Brazil

Baby Psittacosaurus Dinosaur



The Forsyth Gem & Mineral Club recently purchased a Psittacosaurus (pronounced SIT-ah-co-SAWR-us) for Vulcan's Joseph Andres Gutierrez Earth Science Museum.

Psittacosaurus means "parrot lizard". He was a small sized primitive bipedal plant eating dinosaur that had a parrot-like beak with teeth. A full sized adult would reach a length of 2 to 4 ft., height of 4 ft., and weight of 50 to 75 lbs. He had an estimated life span of 10-11 years and lived during the Cretaceous Period about 100 million years ago.



Hungry Joe

This is a true baby male Psittacosaurus Dinosaur that has been cleaned of matrix and has been positioned in an action pose. The Forsyth Gem & Mineral Club has nicknamed him Hungry Joe, in honor of Joe Gutierrez. The Psittacosaurus was originally discovered in 1988. This one was found in Liaoning Province, China, Jiufotang Formation in 2004. A complete dinosaur is a rarity, but a baby specimen is extremely rare! There has, as to be expected in any complete articulated vertebrate specimen, been some repair and restoration. The ribs have been cast because the original ribs were in such poor condition. This little fellow is estimated to have been approximately 1 year old.



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