Fossil or Mystery Monster Found In Kentucky Seems to Defy All Known Groups of Organisms

Curious Cat Science and Engineering Blog

Around 450 million years ago, shallow seas covered the Cincinnati region and harbored one very large and now very mysterious organism. Despite its size, no one has ever found a fossil of this â□□monsterâ□□ until its discovery by an amateur paleontologist last year.

[1]
UC Paleontologist David Meyer, left and Carlton Brett, right, flank Ron Fine, who discovered the large fossil spread out on the table.

The fossilized specimen, a roughly elliptical shape with multiple lobes, totaling almost seven feet in length, will be unveiled at the North-Central Section 46th Annual Meeting of the Geological Society of America [2], April 24, in Dayton, Ohio.

Fine is a member of the Dry Dredgers [3], an association of amateur paleontologists based at the University of Cincinnati. The club, celebrating its 70th anniversary this month, has a long history of collaborating with academic paleontologists.

â□□I knew right away that I had found an unusual fossil,â□□ Fine said. â□□Imagine a saguaro cactus with flattened branches and horizontal stripes in place of the usual vertical stripes. Thatâ□□s the best description I can give.â□□

The layer of rock in which he found the specimen near Covington, Kentucky, is known to produce a lot of nodules or concretions in a soft, clay-rich rock known as shale. â□□While those nodules can take on some fascinating, sculpted forms, I could tell instantly that this was not one of them,â□□ Fine said. â□□There was an â□□organicâ□□ form to these shapes. They were streamlined.â□□

â□□And then there was that surface texture,â□□ Fine said. â□□Nodules do not have surface texture. They're smooth. This fossil had an unusual texture on the entire surface.â□□

For more than 200 years, the rocks of the Cincinnati region have been among the most studied in all of paleontology, and the discovery of an unknown, and large, fossil has professional paleontologists scratching their heads.

â□□Itâ□□s definitely a new discovery,â□□ Meyer said. â□□And weâ□□re sure itâ□□s biological. We just donâ□□t know yet exactly what it is.â□□

â□□What things had to happen in what order?â□□ Meyer asked. â□□Something caused a directional pattern. How did that work? Was it there originally or is it post-mortem? What was the burial event? How did the sediment get inside? Those are the kinds of questions we have.â□□

â□□Iâ□□ve been fossil collecting for 39 years and never had a need to excavate. But this fossil just kept going, and going, and going,â□□ Fine said. â□□I had to make 12 trips, over the course of the summer, to excavate more material before I finally found the end of it.â□□

â□□When I finally finished it was three-and-a-half feet wide and six-and-a-half feet long,â□□ Fine said. â□□In a world of thumb-sized fossils thatâ□□s gigantic!â□□

Meyer, co-author of A Sea without Fish: Life in the Ordovician Sea [4] of the Cincinnati Region, agreed that it might be the largest fossil recovered from the Cincinnati area.

â□□My personal theory is that it stood upright, with branches reaching out in all directions similar to a shrub,â□□ Fine said. â□□If I am right, then the upper-most branch would have towered nine feet high. â□□

As Meyer, Brett and Dattilo assist Fine in studying the specimen, they have found a clue to its life position in another fossil. The mystery fossil has several small, segmented animals known as primaspid trilobites attached to its lower surface. These small trilobites are sometimes found on the underside of other fossilized animals, where they were probably seeking shelter.

Although the team has reached out to other specialists, no one has been able to find any evidence of anything similar having been found. The mystery monster seems to defy all known groups of organisms, Fine said, and descriptions, even pictures, leave people with more questions than answers.

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