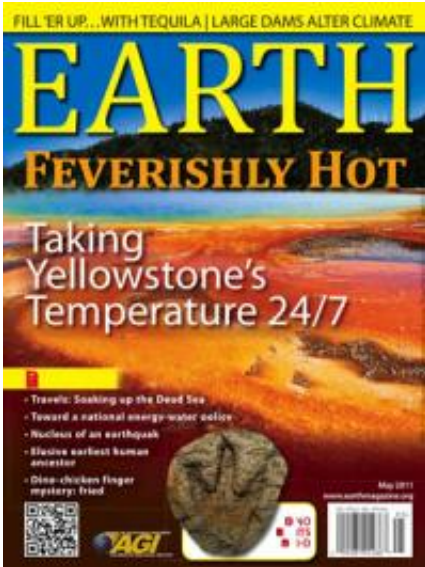


Mapping Dino Footprints in 3-D

May 3 2011



The May 2011 issue of Earth Magazine reports on the research of SMU paleontologists in the SMU Huffington Department of Earth Sciences.

In a project led by SMU [paleontologist](#) Thomas L. Adams, the scientists used portable laser [scanning technology](#) to capture field data of a huge 110 million-year-old Texas dinosaur track and then create to scale an exact 3D facsimile.

They have shared their protocol and findings with the public — as well as their downloadable 145-megabyte model — in the online scientific

journal *Palaeontologia Electronica*.

The model duplicates an actual dinosaur footprint fossil that is slowly being destroyed by weathering because it's on permanent outdoor display, says Adams. The researchers describe in the paper how they created the digital model and discuss the implications for digital archiving and preservation.

Scientists increasingly are using computed tomography and 3D laser scanners to produce high-quality 3D digital models, say Adams and his colleagues, including to capture high-resolution images from remote field sites. SMU's full-resolution, three-dimensional digital model of the 24-by-16-inch Texas footprint is one of the first to archive an at-risk fossil, they say.

More information: palaeo-electronica.org/

Provided by Southern Methodist University

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