

Atlanta Geological Society

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Official Lecture/Field Trip Attendance Record for Professional Development Hours

Tuesday, September 28, 2021

Only since the confirmation of shocked mineral phases at Barringer (Meteor) Crater by USGS geologists Gene Shoemaker and Ed Chao in the late 1950s has impact cratering by hypervelocity collisions with asteroids and comets been considered a significant agent of geologic change on the surface of Earth-- despite having been recognized as the most ubiquitous source of upheaval on other solid planets decades before. Today the scars of approximately 200 impacts have been recognized in the Earth's crust ranging in size from 10s of meters to more than 200 kilometers in diameter and in age from 14 years to 2.2 billion Ga. Dozens of deposits of ejecta have been identified throughout the stratigraphic record, a few well-correlated with impact structures and some apparently the only surviving remains of events both large and small, including a few likely produced by air bursts just above the ground.

Date of Lecture	Lecture Topic	Sponsor	Speaker	PDH Hours
9/28/21	Impacts Great and Small—The Role of Hypervelocity Collisions in Sculpting Earth's Geology	Sponsor – AGS No Sponsor	R. Scott Harris Curator Fernbank SC	1

Signature of Attendee

Date

Print Name

License Number