

Atlanta Geological Society

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Official Lecture/Field Trip Attendance Record for Professional Development Hours

Tuesday, June 29, 2021

The Fall Line is the landward edge of the Mesozoic and younger sediments of the Atlantic and Gulf Coastal Plains. Shoals and rapids upstream of the boundary, caused by exposure of older, harder rocks, localized many cities founded in pre-railroad times, by impeding river navigation and providing waterpower. The sinuous course of the Fall Line from Texas to New York City is traceable to tectonic events from the Cambrian Period down to the present, including the following (approximate ages in millions of years ago): separation of ancestral North America from the supercontinent Rodinia (570), collision of continents to make Pangaea (320), collapse of the mid-Pangaea mountains and subsequent rifting (280), opening of the Atlantic Ocean (170), Southern Appalachian present uplift (15). The history of uplift and erosion down to the present accounts for the fact that some parts of the Piedmont (Upper Flint River basin) are flatter than parts of the Coastal Plain (Fall Line Hills). Human land use may have widened floodplains downstream of the Fall Line.

Date of Lecture	Lecture Topic	Sponsor	Speaker	PDH Hours
6/29/21	A Fall Line Overview	AGS – No Sponsor	Bill Witherspoon, PhD Author	1

Signature of Attendee

Date

Print Name

License Number