

# Atlanta Geological Society

c/o President: Nils Thompson, P.G.  
2145 Summerchase Drive  
Woodstock, Georgia 30189  
Captain.Nils@outlook.com

Secretary: Rob White, P.G., CPG  
Aergon, Inc.  
2927 Ponderosa Circle  
Decatur, Georgia 30033  
Robeth@bellsouth.net

## Official Lecture/Field Trip Attendance Record for Professional Development Hours

**Tuesday, February 23, 2021**

Saint Catherine's Island (SCI), Georgia, consists of a Pleistocene Silver Bluff shoreline sedimentary core flanked by Holocene ridge and swale, and salt marsh deposits. Holocene dunes cover the higher (4.3 – 7.9 m elevation) northern and eastern core, thinning to the west. A NE-SW trending lowland (2.5 – 5.0 m elevation) occupies the central and western portions of SCI and contains Holocene freshwater wetland deposits. Coring and radiocarbon dating in the lowlands revealed substantial variation in thickness (<1 m to > 3 m) of Holocene sediments, and variation in elevation (0.6 m to 4.3 m) of the Holocene/Pleistocene contact. Head, specific conductivity and chemical data from 24 monitoring wells indicate very high tides and storm surges drive saltwater along permeable pathways to specific wells in the SCI interior. Certain wells in the semi-confined aquifer also react to tidal events, but have a lower background salinity than the unconfined wells.

Date of Lecture	Lecture Topic	Sponsor	Speaker	PDH Hours
2/23/21	Structural and Stratigraphic Controls on Saltwater Intrusion, St. Catherine's Island, Georgia	AGS – No Sponsor	Robert K. Vance Georgia Southern University	1

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Signature of Attendee

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Date

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Print Name

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License Number