

AEG-Chicago Fall Field Trip

The Quaternary Geology of the Southern Chicago Metropolitan Area: The Chicago Outlet, Morainic Systems, and Glacial Chronology

Field trip leaders: Olivier J. Caron and B. Brandon Curry, Illinois State Geological Survey, Prairie Research Institute, University of Illinois at Urbana-Champaign

Organized and sponsored by:

Association of Environmental & Engineering Geologists, Chicago Chapter

<http://www.aegweb.org/group/NC>

DATE/TIME: 8:00 am to 5:00 pm, Saturday, November 18, 2017

WHERE: Starts and returns at Plum Creek Play Meadow, 3298 E 223rd St, Chicago Heights, IL, 60411

PARKING: There is limited parking available, please carpool

BUS: school bus, 47 passenger capacity (minimum 25)

FIELD GUIDE: Electronic, available; hard copies distributed at the first stop

DRESS CODE: Hard hat, hard-toe boots, long sleeves and trousers.

LUNCH: On your own at Portillo's in New Lenox

WATER: Attendees are encouraged to bring your own re-usable water bottles and snacks

WAIVER: All participants must sign a waiver releasing AEG from liability

FEE: \$40 AEG members; \$45 non-AEG members; \$15 full time students (\$ subject to change)

SIGN UP: Chris Stohr at chair.aeg.chicago@gmail.com or 217.766.4071 **by November 9th**

** Be sure to include your email and cell phone for last minute updates. **

Field trip description (provided by ISGS leaders):

On this field trip, we will focus on the questions and issues that have vexed Quaternary geologists for more than 70 years. Some issues remain unresolved, and others are beginning to be addressed through a comprehensive characterization of mapped lithological units and the application of relatively new chronological tools: radiocarbon dating using accelerator mass spectrometry (AMS) and optically stimulated luminescence (OSL). At most field trip stops, we will encourage discussions of sedimentary environments and facies relationships and put them into the context of the important environmental issues of this region, primarily groundwater availability and quality. Other issues include aggregate resource development, landfill suitability issues, and groundwater protection. The field trip will consist of 6 stops; prepare to get dirty!

SAFETY NOTE -- The field trip will include stops at stream cuts which includes hiking and climbing on soil and slippery surfaces, chance of tumbling into water, tripping over tree roots, falling debris such as cobbles, appropriate footwear and clothing including headgear is recommended. Hard hats and hard-toe boots required. May encounter poison ivy and brambles. Long sleeves and trousers are recommended.