



Geophysical Society of Pittsburgh



Proudly Presents Tuesday, April 4th, 2017

At

Cefalo's Restaurant, Carnegie, PA

Topic: Induced Seismicity and the Pennsylvania State Seismic Network PASEIS.

Andrew Nyblade

Pennsylvania State University

Abstract: In 2006, The Pennsylvania State University, in collaboration with the Bureau of Topographic and Geologic Survey within the Pennsylvania Department of Conservation and Natural Resources (DCNR), began constructing a network of seismic stations to record seismicity in the state. Between 2006 and 2013, the network grew to a total of 10 seismic stations spread across the state providing near real time, open access seismic data for use by government agencies, academic institutions, industry, and the public. In late 2015, an expansion of the network to 30 seismic stations began with funding from the DCNR and the Pennsylvania Department of Environmental Protection (DEP). Construction of the 30 station network was completed in August 2016. In this talk, I will review the network, provide information on how data from the network are being used to detect and locate seismic events, and describe the types and frequency of seismic events detected by the network, including events induced by oil and gas exploration and production activity.



Biography: Nyblade is an expert in applied seismology and tectonics, and has been a professor in the Department of Geosciences at Penn State since 1994. He is the lead investigator on a statewide seismic network for monitoring natural and induced seismicity. Among other projects, Nyblade and his students are using data from the seismic network to image the deep structure of the Appalachian basin, map fault structures, and investigate the relationship between shale gas activities in Pennsylvania and earthquakes large enough to be felt. Nyblade has spent much of his academic career investigating crust and mantle structure in Africa and Antarctica to understand deep earth processes influencing the tectonics of continental rifting, mountain building, craton formation and basin subsidence. Nyblade holds degrees from Wittenberg University (BA), the University of Wyoming (MS) and the University of Michigan (PhD). He is a member of the American Geophysical Union, where he was elected a Fellow and received the Paul G. Silver Award for Outstanding Scientific Service. He is also a member of the Seismological Society of America and the Geological Society of America.

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Cost: \$35 Members, \$40 Non-members (\$20 for Students). Meeting Location: 428 Washington Ave, Carnegie, PA 15106

(412) 276-6600. Note the significant detour warning on page 2 of the newsletter.

April 4th, 2017 Agenda:

5:00 pm Social Hour (Beer and Wine) sponsored by:

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6:00 pm Dinner Buffet

7:00 pm Lecture sponsored by:



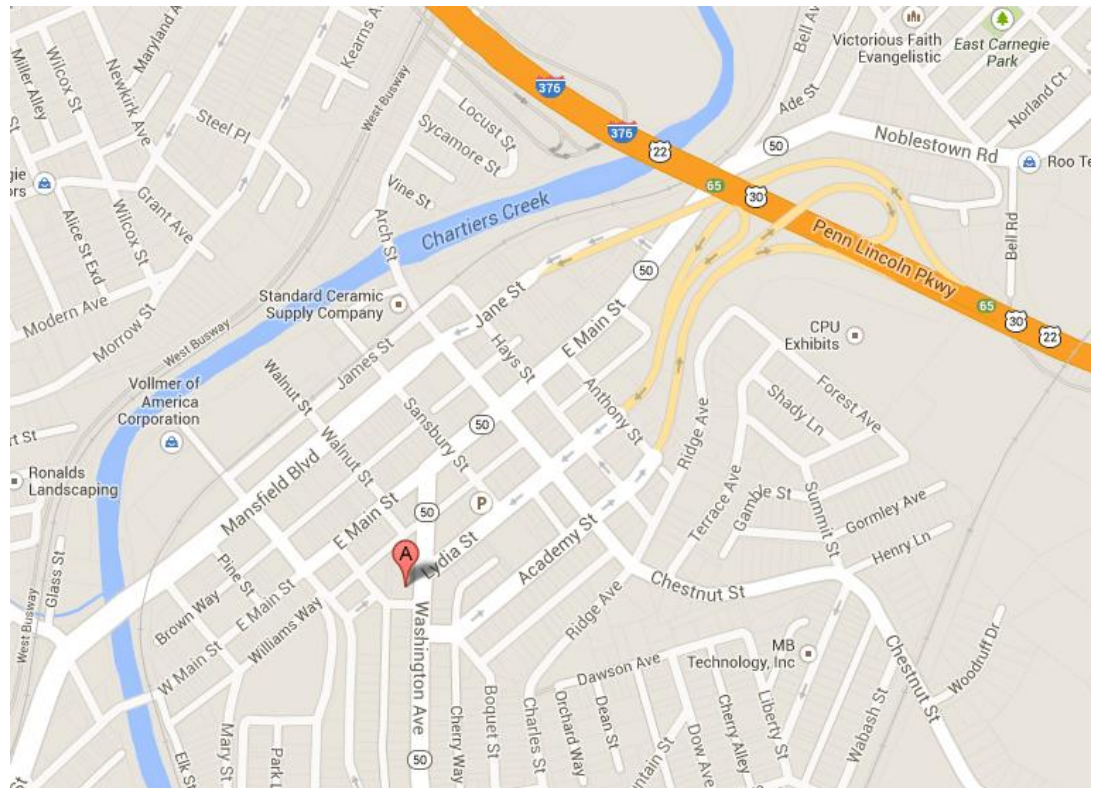
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This months lecture will be held at :

[Cefalo's](#)

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