



Geophysical Society of Pittsburgh



*Proudly Presents Tuesday, October 6, 2015
At
Cefalo's Restaurant, Carnegie, PA*

Surface Microseismic: How Many Events Are Enough? Barry Fish, Dave Diller and Ted Shuck NanoSeis

Abstract: In this presentation, we investigate the different types of information that geoscientists wish to extract from their microseismic data, and attempt to answer the question that is the subtitle of the talk. The presentation will be illustrated by data from a large-scale, successful microseismic survey conducted recently by Dawson Geophysical and NanoSeis in the Midland County area of the Permian Basin, but with results and conclusions that apply to many unconventional plays for which we have processed microseismic data, in the United States and around the world. The survey was designed and specified to use a very high level of field effort in order to allow decimation studies on the data, and to allow us to approximate the minimum field effort that would be required to effectively characterize the hydraulic fracture for the operator's formations of interest. The operator of the wells that were monitored also collected downhole microseismic data on this project, which allowed them to perform comparisons between the surface and downhole methodologies.



Biography: Barry Fish is the Chief Operating Officer at NanoSeis, and has extensive experience in the energy and software industries. He began his geophysics career at Union Pacific Resources in Canada, and subsequently worked with the other two NanoSeis principals, Dave Diller and Ted Shuck, at Advance Geophysical on ProMAX and SeisSpace.

Barry escaped from the oil industry for about a decade, and worked on software and operations projects for Sun Microsystems and EDS. Two notable ones were managing the patch- and update-delivery team for Sun, and a multi-site network refresh for an EDS customer.

Barry sits on the Industrial Advisory Board of the Department of Computer Science at Colorado State University, and maintains an interest in optimization in large problem spaces, deconvolution, and artificial intelligence.

*Please RSVP using the PayPal link on the Geophysical Society of Pittsburgh website at: www.thegsp.org
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.*

October 6, 2015 Agenda

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



Dawson Geophysical Company
6:00 pm Dinner Buffet

7:00 pm Lecture – Sponsored by

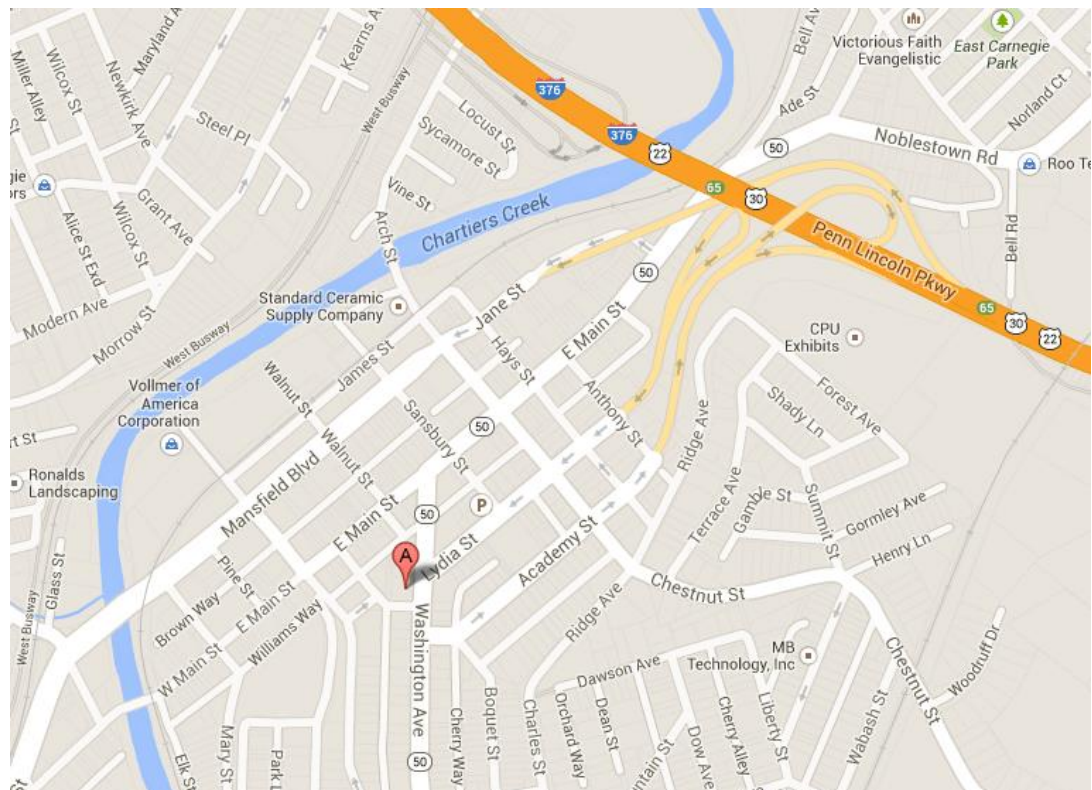


This months lecture will be held at :

[Cefalo's](#)

Banquet & Event Center
428 Washington Ave.
Carnegie, PA 15106
412.276.6600

Note that the Carnegie Exit (65) on/off ramps of the Parkway West (376) are closed until December 2015. Seek an alternate route (two posted detours are the Green Tree Exit on I376 or the Carnegie Exit on I79)



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