1093-86-241 **Bogdan G Nita*** (nitab@mail.montclair.edu), Department of Mathematical Sciences, Montclair State University, 1 Normal Avenue, Montclair, NJ 07405, and **Catherine Wilshusen** and **Marcus Jeffrey**. *Examining a Seismic Imaging Algorithm with Band Limited Data.*

One of the biggest difficulties in current seismic imaging methods is the lack of low frequencies in the collected data. In this talk we present a one dimensional inverse scattering algorithm for geophysical imaging and amplitude correction from measured data. We investigate this algorithm numerically using band limited data which is missing zero and low frequency information. Our examples show excellent results in finding both the location of interfaces and the amplitude of acoustic reflections. (Received August 16, 2013)