

NOMIS SEISMOGRAPHS

Our support specialist, Scott Newman, recently visited Michigan to tour a few projects where Nomis Seismographs are being used. We wanted an opportunity to observe how and where our equipment is being used in order to better understand and meet the needs of our customers.

Scott teamed up with Chris Naida, Senior Project Geotechnical Engineer with SME and toured various sites including the construction of a new apartment complex in Detroit, the Ford Product Development Center in Dearborn, and The Kelsey Museum of Archaeology on the campus of The University of Michigan.



Construction site of apartment complex in Detroit, Michigan.

A new apartment complex is being constructed on the site of the demolished Statler Hotel in Detroit, Michigan. Several seismographs are placed on the perimeter of the site measuring the vibration impact of the sheet piling being installed. Due to the proximity of the project to the Detroit People Mover transit system, vibration monitoring is being performed to ensure the integrity of the above ground track. Chris is using a Nomis Mini-SuperGraph II utilizing the higher bit rate accuracy and a cellular modem for remote communication. A deep cycle 12V battery is used to keep the equipment powered. Everything is protected from the environment by a weatherproof box.



At the Ford Product Development Center in Dearborn, Michigan, there are several renovation and construction projects across the entire facility. Due to the proximity of the various residential neighborhoods surrounding the campus, Chris is monitoring for vibration and sound levels caused by the work. Chris is using a Nomis Mini-SuperGraph with a cellular modem for remote communication. A deep cycle 12V battery is used to keep the equipment powered and a weatherproof box for protection.

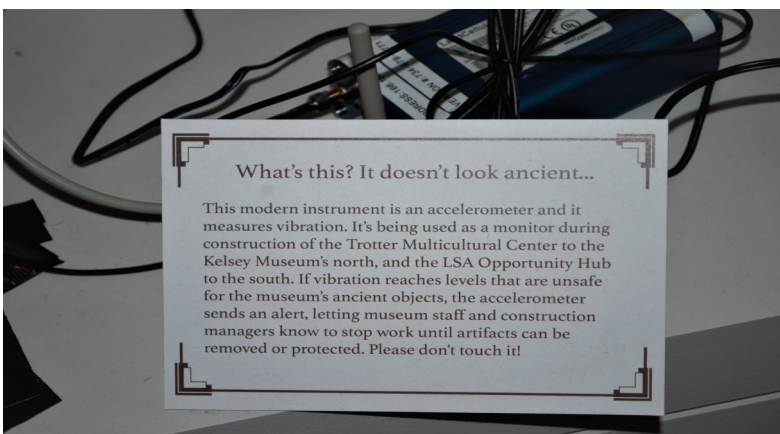
Near the center of the University of Michigan campus, you will find the historic Newberry Hall. This late 1800's structure includes an original, absolutely beautiful, Tiffany stained glass window measuring 15'10" tall and 8'1". The building now houses the Kelsey Museum of Archaeology.



Kelsey Museum of Archaeology University of Michigan.



The Kelsey's permanent exhibition in the William E. Upton Exhibit Wing, (addition in 2009) features highlights from the Museum's collection of more than 100,000 artifacts, ranging from prehistoric through medieval times. While most of the collection is maintained in climate-controlled storage, it is actively utilized for research and teaching in the University. With the construction of the Trotter Multicultural Center to the north and the LSA Opportunity Hub to the south, vibration monitoring is essential to protect these irreplaceable pieces of history.



Chris is utilizing Combo Mode with the Mini-SuperGraph II, using its higher sample rate and bit accuracy settings to attain a clearer picture of all vibration occurring. Used in conjunction with the Nomis Complete Cloud Services, Chris and his clients receive daily reports of vibration levels over the previous 24 hours along with email alerts for vibrations over a determined setpoint.

Thank you to SME and the Kelsey Museum of Archaeology for the opportunity to visit.

<http://www.sme-usa.com>

<https://lsa.umich.edu/kelsey>