

# **NEOUCOM Lecture Hall Renovations**

**Project Location:**    **Rootstown, Ohio**

**Project Date:**        **2005**



Liebelt Hall



Olson Hall

## **Project Description:**

Two existing lecture halls at the Northeastern Ohio Universities College of Medicine were being renovated for technology upgrades, for lighting improvements, for ADAAG accessibility, for improved HVAC comfort and in the case of Liebelt for increased occupancy.

Upon completion of the renovations, Liebelt Hall is 2590 Sq. Ft. and seats 140 students. Likewise Olson Hall is 2900 Sq. Ft. and also seats 140 students.

HVAC comfort problems with the existing lecture halls included stratification, low air volume and noise. The HVAC renovations for both halls utilized multiple series fan powered VAV terminal units located above the ceiling of the adjacent corridors to provide increased and constant air volume at a variable temperature to solve many of the problems while minimizing noise concerns. In addition, the stratification problem in Olson Hall was handled by the use of an air turnover fan to pull the cool air from the lowest level floor at the front of the hall and discharge it into the high ceiling return air plenum.

Design challenges in addition to those already mentioned included limited ceiling space, special sloping ceilings, existing mechanical equipment limitations and operating problems.