

## **BASIC ACOUSTICS II**

### Description

The objectives of this ½ day seminar are to develop and enhance the participant's knowledge, concepts and principles in acoustics learned. It will provide further information on environmental noise and noise modeling and give some practical experience in measuring and controlling noise. This course provides a solid enhancement to the Basic Acoustics I course.

### Topics Include

- Principles of Frequency Analysis, including Fractional Octave filters, Loudness, Noise Criteria Curves and FFT.
- Environmental acoustics factors including outdoor noise propagation, effects of weather, vegetation and land contours.
- Noise modeling examples to illustrate various environmental factors, noise sources, and assessment criteria.
- Noise control methods including sound absorbing materials, construction techniques, silencers, and barriers.

Recommended Prerequisite: Basic Acoustics Level 1 or Equivalent Experience

### Instructor

Steven Bilawchuk, M.Sc. P.Eng., is a Partner and Engineering Consultant with ACI Acoustical Consultants Inc. of Edmonton. Mr. Bilawchuk has extensive experience in environmental noise impact assessments, measurements, and modeling. Mr. Bilawchuk is also an instructor for a senior Mechanical Engineering Course at the University of Alberta in Acoustics and Noise Control.