

Mr. Mark Bliss, P.Eng. has practised as an acoustical consultant since 2003. The majority of his experience has been in the area of noise impact assessments (NIA) within communities due to environmental noise sources such as transportation and industry. He has appeared as an expert witness before the British Columbia Supreme Court, has testified at municipal council hearings and has met with concerned citizen groups to discuss noise issues. He has performed on-site training in noise and vibration measurement techniques. He presented a paper on transportation noise prediction and assessment at an environmental nuisances conference.

Mr. Bliss has performed NIA's for road traffic, rail traffic (e.g. SkyTrain, LRT), mining activities and other industrial noise sources by conducting hundreds of field noise measurements, predicting future noise impacts using national and international standards implemented in noise modelling software, investigating noise mitigation options where warranted and writing detailed reports. He has prepared EAC application reports to BCEAA and CEAA requirements.

Mark has performed building acoustics design work for many building types in order to control mechanical noise, improve speech intelligibility and room acoustics and to improve airborne and impact sound isolation, for new designs and renovation projects. He has also performed building envelope design for many new multi-family residential developments exposed to significant road, aircraft or rail traffic, industrial or entertainment noise.

Mr. Bliss is proficient with the use of detailed noise and vibration instrumentation and analysis software such as Brüel & Kjær, Larson Davis and Soundbook sound and vibration analyzers and Cadna/A, Insul, SONArchitect and ODEON software. He has applied ISO, ASTM, ANSI and other standards to assess environmental noise and vibration levels, room acoustics parameters and noise and vibration isolation properties.

Position: Consultant, BKL Consultants Ltd.

Education: Bachelor of Applied Science
(Mechanical Engineering)

Years of Experience: 8

Expertise:

• **Building Acoustics**

- Rolston Hall
- Edward Milne School Theatre
- Bible Truth Fellowship
- RCMP Drill Hall
- The Aspens
- Various other multi-family dwellings in Greater Vancouver and BC

• **Environmental Acoustics**

- North East False Creek Land Use Study
- Canada Line LRT Construction
- Dominican Republic Diesel Power Plant Expansion Project
- Western Forest Products Sawmill
- Agua Rica Argentina Mine
- Galore Creek Mine

• **Transportation Noise**

- Evergreen Line SkyTrain
- Port Mann / Highway 1
- Golden Ears Bridge
- City of Vancouver Arterial Roads Noise Study
- North Fraser Perimeter Road
- South Fraser Perimeter Road
- Sea-to-Sky Highway Improvements Project
- YVR Long-Term Aircraft Noise Monitoring Site Study

