

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 road traffic 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 also presented a paper on transportation noise prediction and assessment at an environmental nuisances conference.

Mr. Bliss has performed NIA's for road traffic, Light Rail Transit (LRT) traffic, mining activities and other industrial noise sources by conducting hundreds of field noise measurements, predicting future noise impacts using recognised standards implemented in noise modelling software, investigating cost-effective noise mitigation options where warranted and writing detailed reports. He has prepared reports suitable for Canadian Environmental Assessment Act (CEAA) submission.

Mr. Bliss has performed architectural acoustics design work for theatres, houses of worship, office buildings and restaurants in order to control mechanical noise, improve speech intelligibility and room acoustics and to improve airborne and impact sound isolation. He has performed these services 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 LRT traffic or entertainment noise.

Mr. Bliss is proficient with the use of detailed analysis software such as Cadna/A, the US Traffic Noise Model (TNM) and Bruel & Kjaer's ODEON. He has applied ISO, ASTM and other standards to assess environmental noise, room acoustics and noise isolation properties.

Position: Consultant, BKL Consultants Ltd.

Education: Bachelor of Applied Science
(Mechanical Engineering)

Years of Experience: 6

Expertise:

• **Architectural Acoustics**

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

• **Environmental Acoustics**

- North East False Creek Land Use Study, Vancouver
- Canada Line LRT Construction NIA, Vancouver
- Diesel Power Plant Expansion Project NIA, Dominican Republic
- Western Forest Products Sawmill Community NIA, Cowichan Bay
- Agua Rica Mine Environmental NIA, Argentina
- Galore Creek Mine Environmental NIA, BC

• **Transportation Noise**

- Port Mann / Highway 1, Vancouver / Burnaby / Coquitlam / Surrey / Langley
- Golden Ears Bridge, Langley / Surrey / Maple Ridge / Pitt Meadows
- City of Vancouver Arterial Roads Noise Study
- North Fraser Perimeter Road CEAA, Port Coquitlam/ Pitt Meadows
- South Fraser Perimeter Road CEAA, Delta/ Surrey
- Highway 97 and 33 upgrades, Kelowna
- YVR Long-Term Aircraft Noise Monitoring Site Study, Lower Mainland
- Evergreen SkyTrain LRT Community NIA, Burnaby / Port Moody / Coquitlam

