



**Barry McKinnon, Principal Consultant,
McSquared System Design Group Inc.**

Audio/Visual System, Sound System Design and
Acoustical Consultant

Years of Experience: 42 years, 26 years in Current
Consulting Role.

Profile:

Barry has 42 years of sound and AV system consulting, design & integration experience. He had been in the sound contracting field since 1976, and then made the move to consulting in 1991. He brings with him a broad background including: on-air and production radio technician with the Canadian Broadcasting Corporation, plus 15 years of experience in the design, manufacture and installation of sound reinforcement, production, and recording systems in various sizes and types of venues. Loudspeaker design and measurement are a specialty of his, having spent several years developing and manufacturing speaker systems for both portable use and permanent installations with the aid of the TEF analyser.

He is also a graduate of SYN-AUD-CON's sound system design, TEF Advanced Measurement, and Speech Intelligibility courses, and has attended many other technology application courses. He is a member of the Audio Engineering Society and has presented and chaired forums and sessions at the NSCA conferences.

As a senior consultant in A/V system design, Barry has worked on a broad variety of venues and applications. He has done sound and AV system designs for council chambers, lecture theatres, video conference facilities, churches, arenas, outdoor voice warning systems, outdoor sports and entertainment grandstands, high-end home theatre

systems, corporate facilities and other more unusual projects.

The video system designs have covered an extensive range: from desktop flat panel LCD display systems to large scale LCD or LED video walls, with inputs ranging from computer graphics, HD cameras, and various media recorder/players. He has integrated robotic camera systems into presentation systems, as well as streaming media capabilities for intranet and internet applications.

He has written for several US based and International trade publications, including Systems Contractor News, Pro Sound News, Sound & Video Contractor, Sound & Communication, Recording Engineer & Producer, Live Sound, Studio Sound and other magazines over the years.

Education and Qualifications:

- Altec Sound System Design courses
- B&K TDS Measurement Course
- Techron TEF Measurement Training
- Altec Acoustacadd design software training
- SynAudCon Sound System Design Courses
- SynAudCon TEF Measurement Workshop
- SynAudCon Intelligibility Workshop
- JBL CADP2 design software training
- EASE Enhanced Acoustic Simulator for Engineers design software basic and advanced training

Employment History:

- 1997 to present, Principal Consultant, McSquared Systems Design Group Inc.
- 1991 – 1997 BKL Consultants Ltd.
- 1975 – 1991 Acoustec Sound Products / DSE Prod Equipment & Services Ltd.
- 1974 – 1975 CBC Radio technician
- 1973 – 1974 CJSW Radio UofC

Associations:

- Audio Engineering Society

Relevant Experience and Capabilities:

City of Richmond Council Chambers, Richmond, BC

Design of AV systems for the municipal council chamber with a request to speak queue audio system, digital video presentation system, cable TV production system with six HD cameras, and web streaming.

Completed: 2014

Calgary Stampede Grandstand, Calgary, AB

Design of a sound system upgrade for the interior and exterior zones of the Stampede Grandstand with up to 25,000 people in attendance for afternoon and evening shows. The sound system features a large DSP configuration, networked audio delivery and distribution, and a substantial outdoor speaker system capable of delivering high fidelity audio over a 250m x 150m area.

Completed: 2012

UBC Thunderbird Arena, Vancouver BC

Design of a sound system for the 5500 permanent seat (7000 max seating) arena at the UBC campus. The system has multiple preset zones for standard seating bowl and stage configurations.

Completed: 2009

Poirier Sports & Leisure Complex, Coquitlam BC

Design of a community recreation centre with three ice surfaces, as well as multipurpose and lounge spaces. A central multi-zone sound system with AV and e-signage displays.

Completed: 2008

District of North Vancouver Council Chambers, North Vancouver, BC

Design of AV system upgrade for the district council chamber with a request to speak queue audio system, digital video presentation system, cable TV production system with HD cameras, and web streaming/capture.

Completed: 2010

UBC Instructional Resource Centre, Vancouver, BC

Design of AV system upgrade for the Instructional Resource Centre at the Woodward Building at UBC. Six lecture theatres are connected to a central master control for management and recording or overflow connectivity. The upgrade included digital video, new audio systems and control systems.

Completed: 2013

University of Victoria CARSA Performance Gymnasium, Victoria, BC

Design of a sound system for a new 2200 seat gymnasium to support CIAU competition as well as convocation and other outside rental events such as conferences. The system is capable of high quality music playback for the sports events, and exceptional speech intelligibility for all events.

Completed: 2014

UBC AMS Student Nest, Vancouver BC

Design of AV system for the new student union building at UBC. Forty bookable rooms, food service areas, a Great Hall event space, a 54 seat student Forum, a black box performance space, all with central AV management and room combinability for the second floor event spaces. Essentially a student owned convention centre.

Completed: 2016

UBC Allard Hall Law Faculty, Vancouver, BC

Design of AV systems for the new Faculty of Law Allard Hall at UBC. Multiple lecture theatres are connected to a central master control for management and recording or overflow connectivity. The upgrade included digital video, new audio systems and control systems.

Completed: 2013

Cloverdale Recreation Centre, Surrey, BC

Design of a community recreation centre AV system with three gymnasiums, as well as multipurpose and activity rooms. A central multi-zone sound system with AV and e-signage displays.

Completed: 2009

Guildford Pool, Surrey, BC

Design of a community recreation centre sound system upgrade for a new pool addition at the Guildford Community Recreation Centre. Multiple natatorium zones and integration of an expansion to the fitness centre

Completed: 2014

Western Event Centre, Calgary, AB

Design of a sound system for the new Western Event Centre arena at the Calgary Stampede. A central audio system with multiple zones and touch panel control.

Completed: 2014