



Jim Love

ISEEE Fellow

*Professor,
Faculty of Environmental Design*

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Education

BASc, Queen's University
MEvds, University of Calgary
Doctor of Architecture, University of Michigan

Research Areas / Keywords

Sustainable Development and Design; energy-efficiency, HVAC, lighting, day-lighting, sustainability, green buildings.

Biography

Jim Love's primary research focus is sustainable building design. The Faculty's architecture program views theory and practice as mutually energizing spheres. The context of practice is critical in establishing a framework for effective research in sustainable building design, and it is essential that research advance practice. Jim Love advises design teams on an ongoing basis with a view to achieving leading edge building performance. Love and his graduate students provide energy consultation services for many of the University of Calgary's construction projects, such as the LEED Platinum Child Development Centre. Other initiatives include implementation of LEED environmental certification at Banff Community High School (the first LEED-certified school in Canada). He has been energy engineer for many other buildings, including North America's first multistory "chilled" slab building. Together with graduate students, Love conducts post-occupancy studies to evaluate the performance of these structures, as well as simulation studies to explore alternatives for day-lighting and other aspects of energy-efficient design. Computer simulation and physical monitoring are both used in these endeavors. He also has a 100 m² test building for systems research.