



BUILDING INTELLIGENCE
GROUP
LLC



Building Intelligence for Sustainability

Intelligent Buildings deliver sustainability and improved occupant satisfaction. As an owner, this means reduced energy, maintenance, and operating expenses. They do this by implementing technology to optimize the operations of all building systems and user interactions. We are your independent consultant with a mission to work with you to gain the benefits of Intelligent Buildings. We understand that you have a large investment in existing plant and infrastructure. We can help you create a plan to upgrade these systems over time, making both your next project and your current physical plant intelligent. Our associates are experienced in cutting edge technologies and are focused on delivering the value that you demand.

Technical and Strategic Consulting Services

We will work closely with you to plan and implement Intelligent Building attributes for both new developments and existing properties. Our services include:

- Surveys and benchmarking evaluations
- Systems evaluation and master planning
- Evaluation and selection of technologies, suppliers, and options
- Financial analysis and justification
- Integrated system design and specification
- Project management and validation
- Training and development
- Post occupancy verification and measurement

Call or visit our website for more information on our extensive industry involvement, services and solutions.

www.buildingintelligencegroup.com
Voice: 651.204.0105
E-mail: info@buildingintelligencegroup.com

Project Profiles:

Building Intelligence Group works with a broad variety of clients and project teams. Below are some profiles of current projects:

Van Andel Institute—Phase II, Grand Rapids, Michigan, USA



The Van Andel Institute is a privately funded cancer research center with a mission that includes research and education. Phase II will more than double the size of the facility, providing laboratory, library, office, and common space. The new addition is designed for sustainability using solar power arrays, water recycling, and meeting LEED certification requirements.

Building Intelligence Group was retained to complete an Intelligent Building analysis and concept development report, and then asked to join the design team to provide the Intelligent Building systems design. We worked closely with the design team to select optimized systems, develop the systems integration and user interface design, and provide measurement and verification of energy savings. The final design provided optimization and integration of systems including HVAC, lighting control, security, fire alarm, and video surveillance. All of these systems will be connected to the facility's IP network and optimized for additional savings. We also developed a design for custom user portals for operations, security, management, and building occupants. This project is currently under construction. Our involvement will continue through post occupancy in providing reporting and verification of energy savings.

University of Alberta, Edmonton, Alberta, Canada



As a major research and academic institution committed to sustainability, the University of Alberta was looking to maximize the use of central controls and automation, however rapid campus growth coupled with legacy control systems make this a challenge.

Building Intelligence Group was retained to evaluate and review the existing approach being used on campus and to help determine the direction for future systems. This process has included interviews of management and staff, clarification of goals, evaluation of existing design standards and recommendations for new standards. Additional services have included several benchmarking studies, including an evaluation of the approach being utilized by similar institutions. The results have included recommendations for new system designs that are expected to improve efficiency and reduce both capital expenditures and operating expenses on campus. Most importantly, these new standards will help the University to achieve their goals for sustainable operations.

Key Personnel

Paul Ehrlich, PE **Founder and President**



Paul Ehrlich is a well-known industry stakeholder and advocate of integrated and Intelligent Buildings. In 2004 he formed the Building Intelligence Group LLC, an independent consultancy whose primary purpose is to help system suppliers as well as building owners and managers, maneuver their operations through the vast changes prompted by open systems, convergence and enterprise building management. The main focus is in the areas of facility and IT integration, convergence and Intelligent Buildings. Clients include facility engineers, developers, property management firms and major manufacturers of building systems and associated technologies.

Throughout his career, Paul has been actively involved with various industry groups involved in the creation of new automation standards and technologies. Previous roles include chairing the ASHRAE Guideline 13 Committee on how to specify DDC controls, chairing the BACnet sub-committee on interoperability, and acting as the inaugural chair for the oBIX Committee to establish XML standards for building controls. At BuilConn 2004, Paul was honored with a Buildy Vision Award for his perseverance in promoting whole building integration and interoperability through advocacy, promotion, education and training endeavors.

Paul has a bachelors degree in Mechanical Engineering from the University of Wisconsin and a Masters of Business Administration from the University of St. Thomas. He is a licensed engineer in the State of Wisconsin and lives with his family in White Bear Lake, Minnesota.

Ira Goldschmidt, PE **Integration Engineer**



Ira Goldschmidt has over 25 years experience in the Building HVAC, Controls and Energy Management industry and developed some of the first commercial DDC building automation systems. He is well known throughout the industry for his expertise in building automation to solve complex control and energy management; integration with fire, security, and lighting systems, and integration with building IT/Enterprise systems. As a co-author of the ASHRAE Guideline on "Specifying Direct Digital Controls" and the BACnet® standard for DDC communications, he has provided numerous talks, seminars and training courses for the industry.

Ira is a highly respected professional engineer with LEED® 2.0 Accredited Professional certification and is an ENERGY STAR® Partner. He is a respected author and expert in the industry in the area of Intelligent Building control system design and commissioning.

Riva Kupritz **Researcher**



Riva Kupritz has over 20 years of experience in market research and strategic planning. She brings to our organization a unique ability to assess and analyze potential opportunities and then develop actionable strategies based upon the findings. Areas of expertise include focus group moderating, online, phone and print surveys, and market segment analysis.

Riva has provided valuable research and strategy services to industries including building automation, utilities, architectural, engineering and design, and commercial real estate. Her services have been instrumental in helping organizations within these industries to define market opportunities, introduce new products and services, and expand market share of existing offerings.

Riva earned her Masters degree in Journalism from Boston University and a Masters of Business Administration from the University of Illinois.