

Knowledge



Course Summary

This three day hybrid course explores the design principles in energy and exergy efficient indoor environmental quality focusing on integrating architectural, interior design and radiant based HVAC system solutions. The core content based on theory and practical applications will revolve around the health, building and HVAC sciences including a study in thermal comfort and indoor air quality, cold climate enclosures, heat transfer, hydronic cooling and heating systems including a detailed study in fluid fundamentals and the hydraulics of hydronics, control valves and balancing, heat terminal units including fan coils, radiant cooling and heating and dedicated outdoor air systems.

Student Profile:

This course is for today's working design practitioner who may be a recent graduate from an architectural, mechanical engineering or interior design program and those from the distribution and contracting professions who already hold design certifications from various institutes and associations. Experienced professionals who may want to expand their knowledge base on IEQ, controls, radiant heating & cooling, fluid hydraulics and snow melting will also benefit from the program.

Robert Bean, R.E.T., P.L.(Eng.)

Robert Bean is Registered Engineering Technologist in building construction and a Professional Licensee (Engineering) in HVAC. A past ASHRAE Distinguished lecturer, recent recipient of ASHRAE's Lou Flagg Award and ongoing member of ASHRAE Technical Committees: T.C.6.1, T.C.6.5, T.C. 7.04 and SSPC 55 and the current User Manual Task Leader for ANSI/ASHRAE 55 - Thermal Environmental Conditions for Human Occupancy. His specialties include energy, indoor environmental ergonomics and radiant based HVAC systems.



Sept. 17-19 Edmonton, AB

Oct. 29-31 Halifax, NS

Nov. 19-21 Vancouver, BC

Nov. 26-28 Toronto, ON

Dec. 3-5 Montreal, QC

Fee: \$850.00 per person

Register: www.uponorpro.com/thefutureis

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