

# Speaker Biography

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## Ralph Kittler, P.E.

**Topic: Natatorium Design and Dehumidification.**

These facilities are notoriously complex to design and can be expensive to operate. The presentation covers the many critical system design aspects of a Natatorium which include the fundamentals of psychrometrics, dew point, humidity/condensation control, moisture load calculation, air distribution, ventilation requirements, water chemistry and how to optimize your operating conditions to minimize operating costs.

Mr. Kittler is an ASHRAE Distinguished Lecturer and well regarded in the HVAC industry as an expert in dehumidification and Indoor Pool Design. He has been in the dehumidification and Natatorium design field for 25 years. He is TC 9.8's revisor responsible for the chapter which covers Natatorium Design (Large Building Air Conditioning Applications) in ASHRAE's 1999/2003/2007/2011 Applications Design Handbooks. He is also TC 8.10's chairman and their Handbook subcommittee chair for the Mechanical Dehumidifiers chapter (24) in the Systems and Equipment Handbook and speaks regularly at ASHRAE meetings across the country.

Mr. Kittler is a Co-Founder and Director of Sales & Marketing for Seresco Technologies Inc., a dehumidifier manufacturer. He is a Professional Engineer with a degree in Mechanical Engineering from Lakehead University, Ontario Canada in 1989.