



Building Science Fundamentals - Agenda

Session One	
1:00 pm - 5:00 pm	Environmental Separation
	Definition of a Building
	The Effect of Climate
	The Perfect Wall
	The Water Molecule
	Relative Humidity and Vapor Pressure
	Air Flow and Vapor Diffusion
	Rain
	Capillarity
Session Two	
1:00 pm - 5:00 pm	The Myth of the Dew Point
	Roofs Vented and Unvented
	Hygic Buoyancy
	Ice Dams

	Basements
	Crawlspaces Vented and Unvented
	Slabs and Flooring
Session Three	
1:00 pm - 5:00 pm	Stucco Failures
	Pressure and IAQ
	Buildings as 3-D Airflow Networks
	Controlling Pressures and Pathways
	Stack Effect and Compartmentalization
	HVAC
	Part Load and Humidity Control
	Central Systems vs. Distributed Systems
Session Four	
1:00 pm - 5:00 pm	Retrofits
	Mass Buildings
	Freeze Thaw
	Interior Foundation Retrofits
	Historic Building Limitations
	Frame Buildings
	Deep Energy Retrofits