

Session 3

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Title: Designing for the Senses: How Science Shapes Architecture

This lecture will examine how architecture can integrate scientific knowledge to move beyond conventional design methods and create human-centered spaces that prioritize well-being and adaptability. By adopting the principles of multisensory design and utilizing insights from neuroscience and embodied cognition, architects can develop environments that connect with human emotions and support cognitive and physical health.

Human-centric spaces consider the complete sensory experience, including engaging visual aspects and auditory, tactile, olfactory, and gustatory stimuli. This holistic approach is rooted in embodied cognition and emphasizes the interconnectedness of the body, mind, and environment.

This lecture will examine the theoretical framework and scientific principles of sensory engagement, perception, and action. It will focus on how the built environment influences memory, emotion, and behavior. The discussion will highlight the transformative potential of architecture, guided by scientific research. Architecture creates adaptive spaces that dynamically respond to users' needs. In this context, architecture enhances well-being, promotes sustainable practices, and redefines how people interact with their surroundings.