Workshop on Improving Building Design for Persons with Low Vision

ARTIFICIAL LIGHTING
Moderator: James E. Woods
September 30, 2010

Mary Ann Hay IALD
Syska Hennessy Group
Artificial Lighting Influences Our:

Behavior within Environment
Artificial Lighting Influences Our:

Perception of Environment
Artificial Lighting Influences Our:

Sense of Well-being
Artificial Lighting Influences Our:

Visual Comfort
Artificial Lighting Influences Our:

Navigation through the Environment
Artificial Lighting Influences Our:

Productivity
Artificial Lighting Influences Our:

Safety
Lighting Design Must Be Developed in Concert with:

- The requirement of the occupants
- The requirements of the owner
- The Architectural Design
- The Interior Design
- The Jurisdictional Requirements & Codes
Current Trends in Lighting Design:

- Improving Sustainability
- Improving Energy Efficiency
- Reducing Capital Operating Expenses
- Improving Color Rendition
- Reduction in Lamp Size
- Reduction in Luminaire Size
Negative Impact of Current Trends:

- Demographics of an aging population & aging workforce
- Overall reduction of illumination levels due to more stringent energy codes
- Smaller lamps with higher lumen output result in increased surface
Lighting Design Considerations:

- Provide consistent levels of illumination in circulation zones
- Provide increased task illumination
- Consider "transition zones" for entry points to significantly higher or lower illumination levels
- Control glare
- Provide vertical illumination on room surfaces for vantage point & space definition
- Provide high color rendition sources