Nature of Place Symposium

The Lost Language of Love in Architecture

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Our challenge…
Our opportunity.
Design aesthetics as driver.
Prioritizing efficiency and cost control.
Are you feeling the love?
“Our passionate love of life, and all that is alive.”

Erich Fromm
1964
Biophilia and Well-being

- Physical
- Mental
- Emotional
Why is this essential?

Urbanization has increased

- Stress
- Crime
- Absenteeism
- Depression
Biophilic Design

Fostering of human-nature connection in the built environment.
An interpretation of biophilic design
Arizona State University Design Healing Design Studio, 2017
The Value of Biophilic Design

Community
Development
Healthcare
Retail
Workplace
Education
The Value of Biophilia

- Stress reduction
- Community connection
- Increase longevity
- 25% Violence/aggression reduction
- 8% Crime reduction
- 20% Increase youth self-discipline
The Value of Biophilic Design

Increase of Property Value
+58% Waterfront
+37% Park views
+7% Forest views
+5% Water views
+5% Landscaping or park

Development
The Value of Biophilic Design

- Decreased stress, anxiety
- Improved mood, outlook, collaboration
- Reduced length of stay -8% shorter
- Increased effectiveness of treatment -20% reduction painkillers

Healthcare
The Value of Biophilic Design

- Consumers shown to pay +25% more
- Longer duration spent in stores
- Buffers stress of shopping
- Higher frequency of repeat business
The Value of Biophilic Design

- Increased productivity +6%
- Increased levels of creativity
- Stress reduction
- Increased staff mood and overall satisfaction
- 10% of staff absences are attributed to design with no connection to nature
- Absenteeism accounts for 4% of operating cost
The Value of Biophilic Design

- Decreased stress
- Improved attendance
  3.5 days
- Improved attention
  ADHD symptoms reduced
- Improved test scores
  +15%
- Improved self-discipline
- Improved learning
  +20% school curricula
How do we design with Biophilic Design?
1. Environmental Features

- Color
- Water
- Air
- Sunlight
- Plants
- Animals
- Natural materials
- Views and vistas
- Façade greening
- Geology and landscape
- Habitats and ecosystems
2. Natural Shapes and Forms

Natural shapes and forms
Botanical motifs
Tree and columnar supports
Animal (mainly vertebrate) motifs
Shells and spirals
Egg, oval, and tubular forms
Arches, vaults, domes
Shapes resisting straight lines and right angles
Simulation of natural features
Biomorphy
Geomorphology
Biomimicry
3. Light and Space

- Natural light
- Filtered and diffused light
- Light and shadow
- Reflected light
- Light pools
- Warm light
- Light as shape and form
- Spaciousness
- Spatial variability
- Space as shape and form
- Spatial harmony
- Inside-outside spaces
4. Natural patterns and processes

- Sensory variability
- Information richness
- Age, change, and the patina of time
- Growth and efflorescence
- Central focal point
- Patterned wholes
- Bounded spaces
- Transitional spaces
- Linked series and chains
- Integration of parts to wholes
- Complementary contrasts
- Dynamic balance and tension
- Fractals
- Hierarchically organized ratios and scales
5. Place-based Relationships

Place-based relationships
Geographic connection to place
Historic connection to place
Ecological connection to place
Cultural connection to place
Indigenous materials
Landscape orientation
Landscape features that define building form
Landscape ecology
Integration of culture and ecology
Spirit of place
Avoiding placelessness
6. Evolved human-nature relationships

- Prospect and refuge
- Order and complexity
- Curiosity and enticement
- Change and metamorphosis
- Security and protection
- Mastery and control
- Affection and attachment
- Attraction and beauty
- Exploration and discovery
- Information and cognition
- Fear and awe
- Reverence and spirituality
Revealing “essence” in biophilic design
**Essence and biophilic design**

- Early engagement
- Integrative and Inclusive
- Experiential
  - Mindfulness
  - Nature immersion
  - Play + storytelling
- Regenerative mindset *(support life!)*
http://phipps.conservatory.org/design
To carry with you…

- To deepen your connection

- Explore Biophilic Design Chapter 1
  Kellert, Heerwagon, Mahor

- Start where you are

- Learn the “Essence” of a place
Thank you.

The Lost Language of Love in Architecture

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