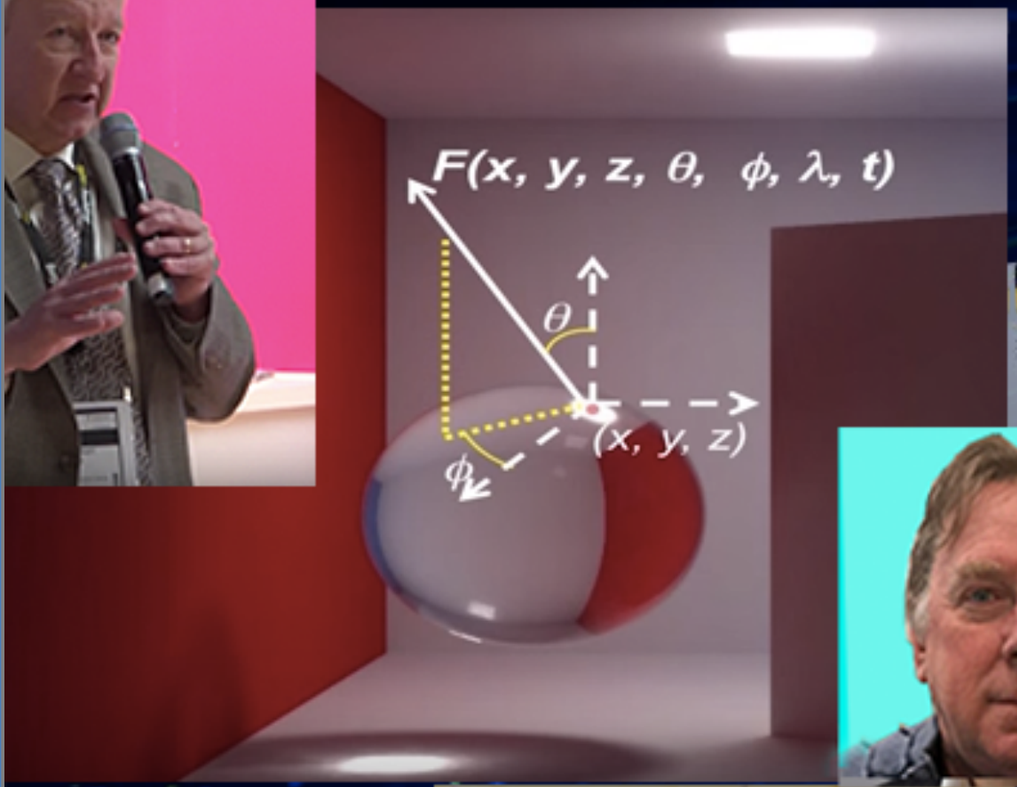
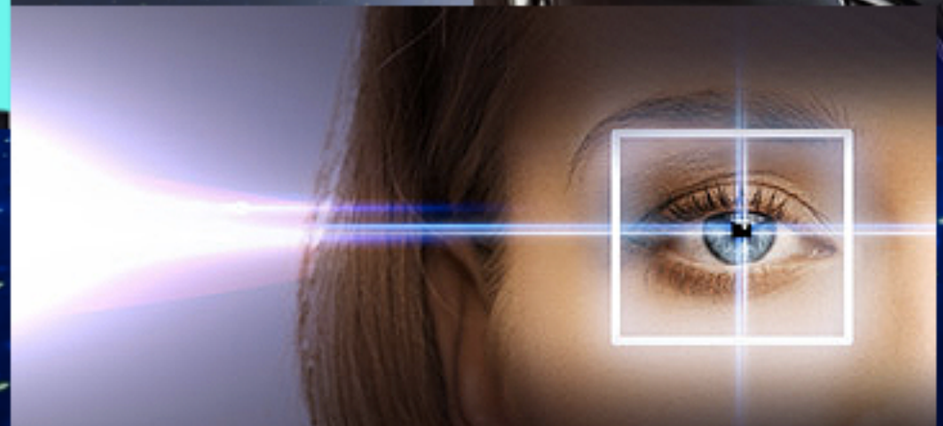
IESSF Emerging Technologies in Lighting

The Hottest, Smartest, & (Mostly) Non-IoT





Jan.19 2017

Design Centric Lighting (Or Vice Versa)

Clifton Stanley Lemon

Founder, Clifton Lemon Associates

Industry Trends

Ledification

Sensorization

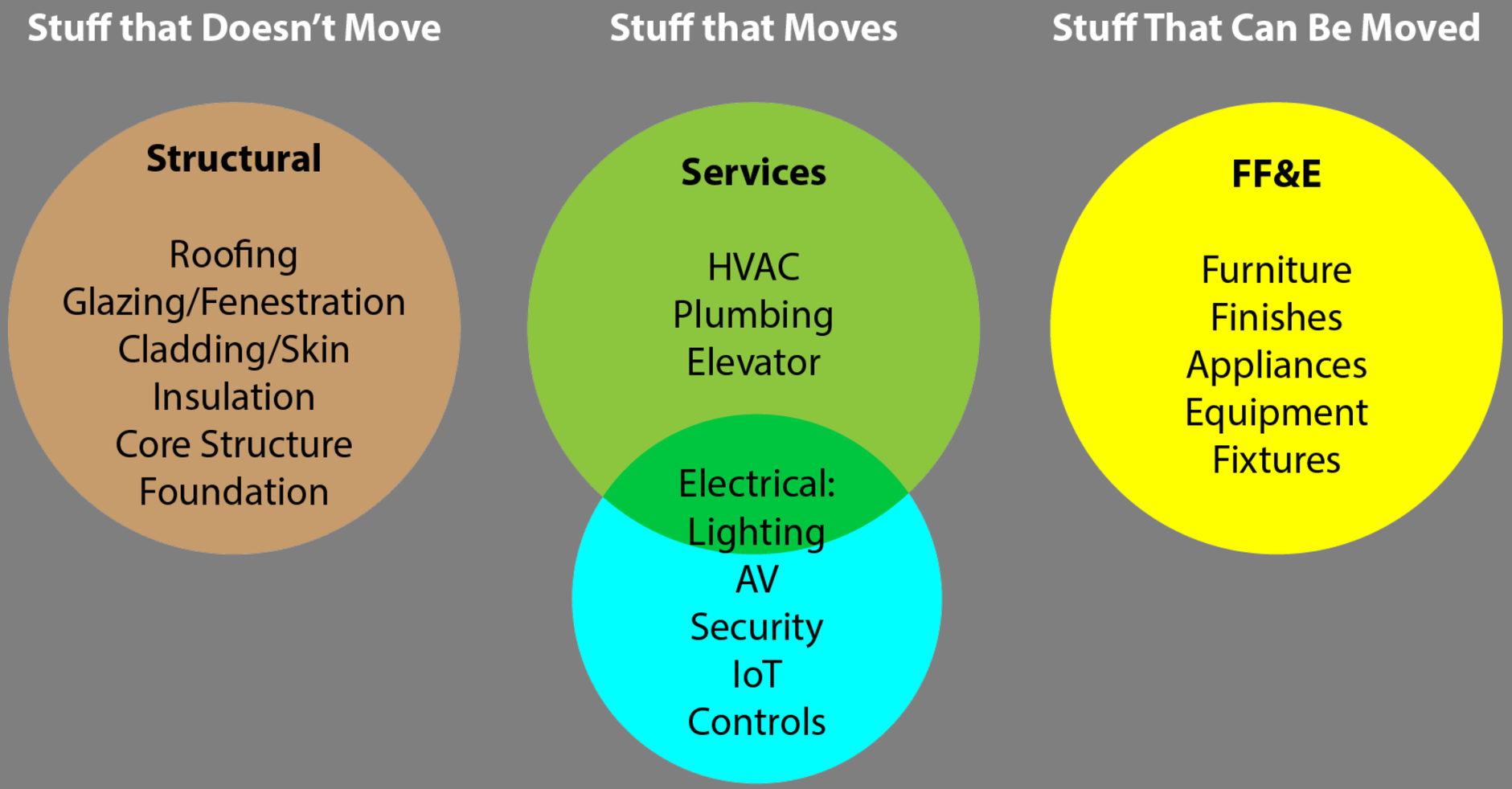
Cost Reduction- System Integration

@ Chip & Package Level

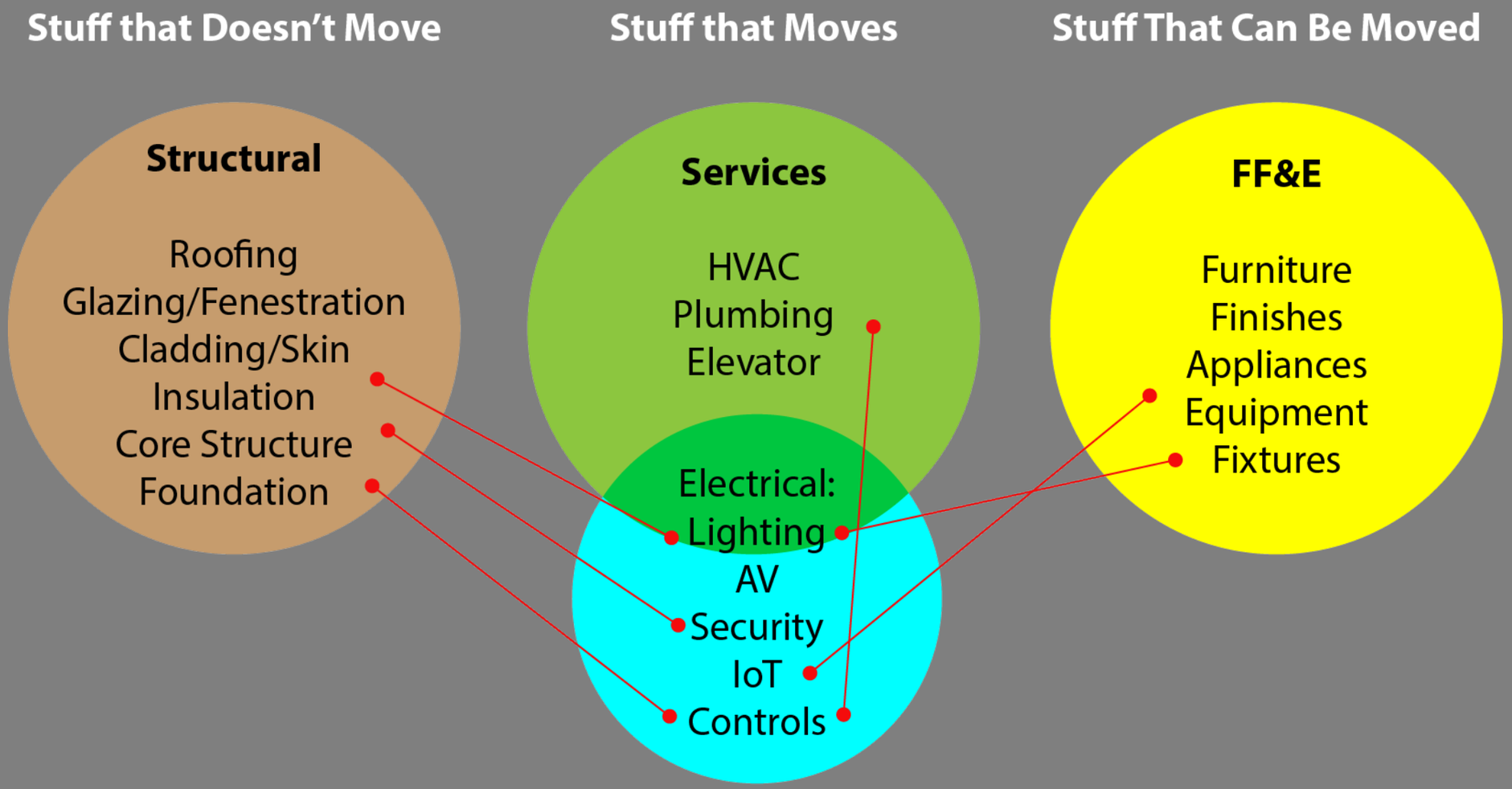
Supply Chain Realignment

Embedded Intelligence

Lighting is Part of Building



Lighting is Part of Building



Building Evolves Slowly

Driving Factors:

Risk Management

Sunk Costs

Localization

“Project” Bias

Complexity

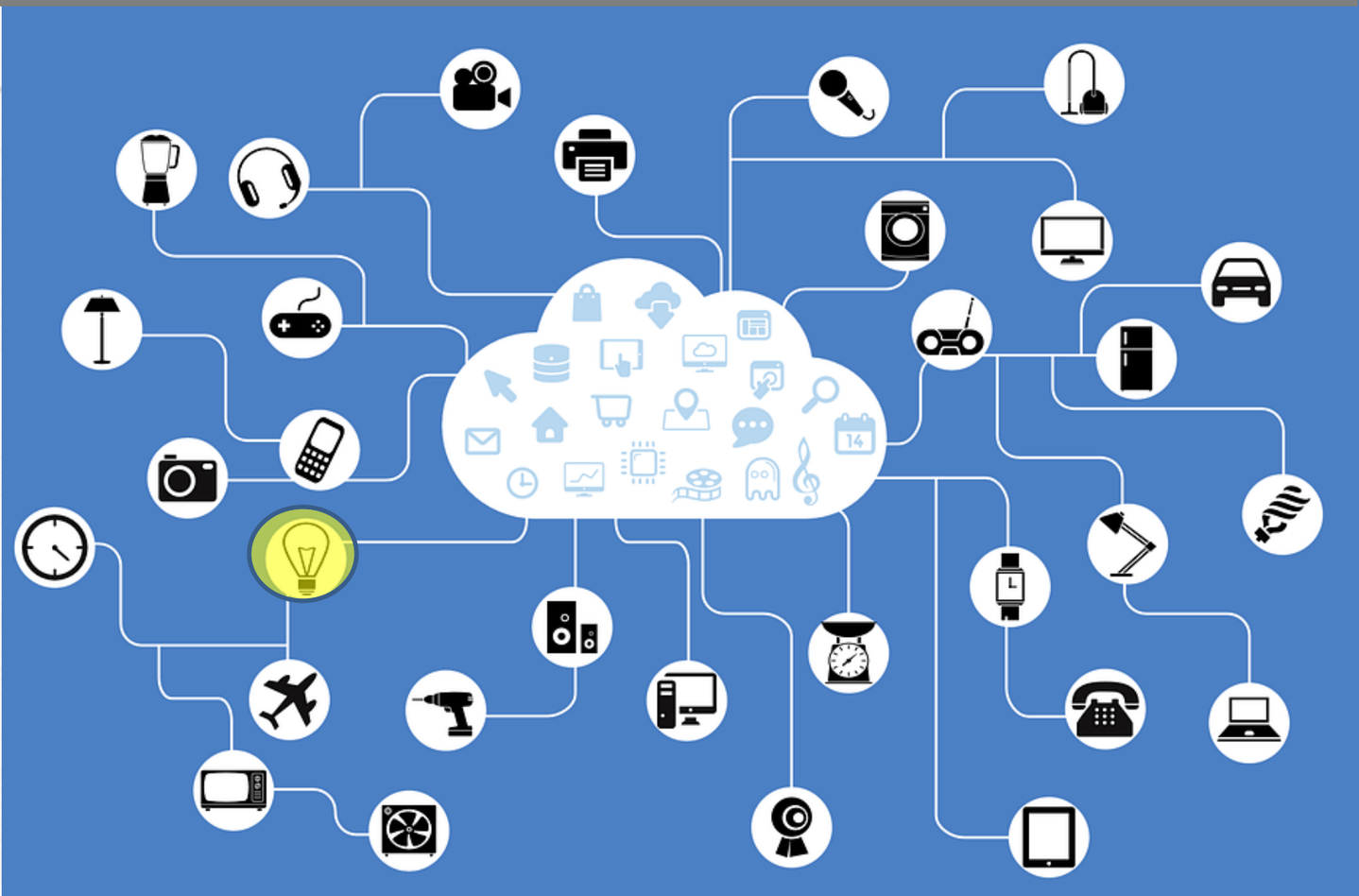
Photo: Wikipedia Commons

Photo: Pixabay

Lighting Leads

Circa 1910- “Internet” of Electricity

Today: Life in the Cloud



LDs: Merely Specifiers?

Photo: Wikipedia Commons

Lighting is Unimportant

Data & IoT Rule

Humans out of the loop

Lighting Companies

are now IT companies

Smart Sockets not

Smart Lighting

Lighting is About Design

By definition,

Design is Innovation

Photos: Wikipedia Commons, Lauren Manning

Today A Designer Must Be A:

Researcher
Behavioral Economist
Anthropologist
Psychologist
Politician
Engineer
Artist
Historian
Entrepreneur

Photo: Wikipedia Commons

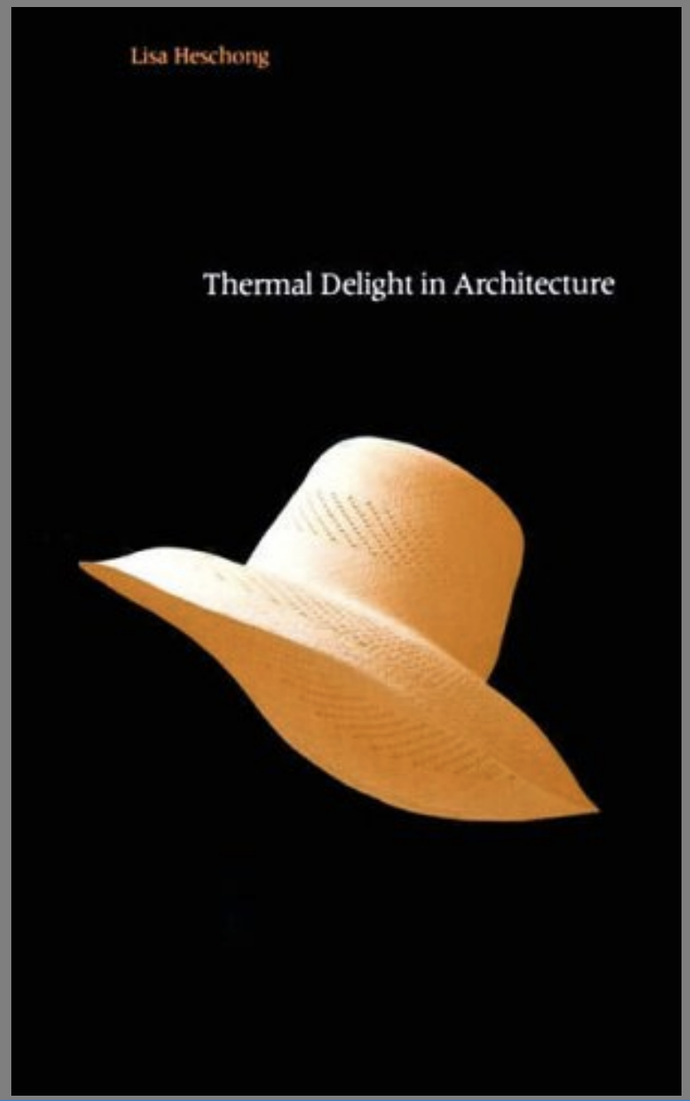
Different Paths to Design

Just…	But…
Build What They Want!	How do we know what they want?
Build It & They Will Come! (They will want it when they see it)	What if they don't come?
Build It & Make Them Want It!	It's really hard to make them want stuff they don't understand

Building is Disruption Averse

Photos: Wikipedia Commons

What About Beauty & Delight?



To claim "truth to materials" is to reduce **architecture** to construction, and to claim that ornament is crime is risible. **Beauty in architecture** is perceived in a building's visual qualities. The aesthetic sense assesses the **beautiful**, while its counterpart, the moral sense, assesses the good.

-C.W. Westfall

Photo: Auerbach Glasow French

Design Is…

Not reflexively innovating to solve problems,

but ensuring that we're solving the right problems

in the first place.

Thank You!

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Panel Discussion Questions

Is it ethical, practical, or even possible to totally automate building controls?

What are the problems most worth solving with lighting?

When and how will IoT be used directly for lighting itself?

What are the most important priorities for lighting research and what's keeping us from exploring them?

This concludes The American Institute of Architects
Continuing Education Systems Course