

Playa Engineering (+ RBHU)

w/ Eleanor Reynolds, PE, SE

ARCHE alum 2009

Str. Eng MS 2011

RBHU ~ n. clever, builder, prudent, skillful, inventive,,

→ Eng. Firm specializing in
large scale art sculptures

- Playa :
- "Festival" of sorts
 - 1 week a year
 - Sculpture installation (400+)
 - UX based
 - end week w/ Burning Man

central structure is
safely burned down

Challenges :

- windstorms
- humans (variability of use)
- variability of design
⇒ no structural code precedent

Project Specs by size:

- 0-10' — arch. plan
- 10'-15' — str. cons's & member sizing
& platform sizing
- 15'-20' — const. drawings & load calc
& rigging wire calc.
- 15'-more — licensed eng. calc.

Past Projects :



- Bliss Dance
by Morco Cochrane
- Debuted at Burning Man

Lymphonic Creature Choir

by Mark Bolter

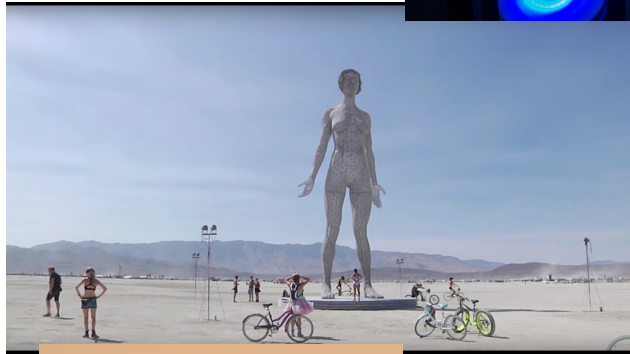
- 12' cantilever
- 100 mph winds
- transparent (plac)
- ~~2" displacement~~ ultimately not met



R - Evolution

by Marco Cochrane

- 48' tall



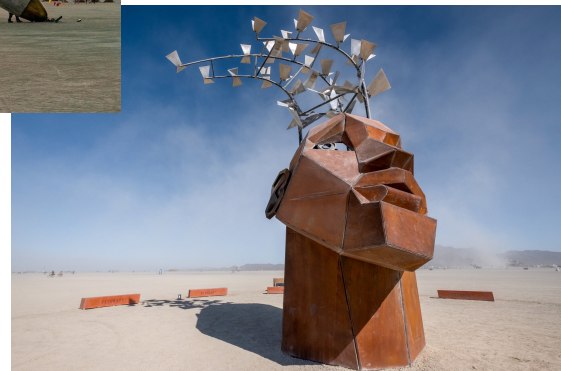
Lodestar

by Randy Blumbo



Flybrary

by Christine Sp...



Eternal Return

by Porter Hudson

- zoetrope (human - paired)
- used ANSYS

