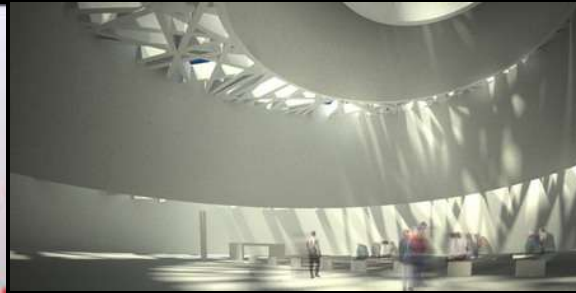


# KINETIC AESTHETIC

Beauty that Move



# What is Kinetic Aesthetic?

- What is Kinetic Architecture? = Movement
  - Design of building which change /move/mobility/geometry movement according to climate, need or purpose.
  - Modern design concept in architecture + add complex components
- Understand elements and their principle in space
- Apply to design concept and architecture
- What is required?
  - Understand nature & environment Inspiration in design
  - Understand theory and principle



Case Study I

# KINETIC AESTHETIC IN ART, ARCHITECTURE & ENGINEERING

# Theo Jansen: The art of creating creatures



Theo Jansen is not only passionate of technology (engineer), but the potential material building incredible creature.



- Several decades... Theo experimented a new nature using yellow plastic tubes and light materials as the key elements in the structure and function of all living cells.

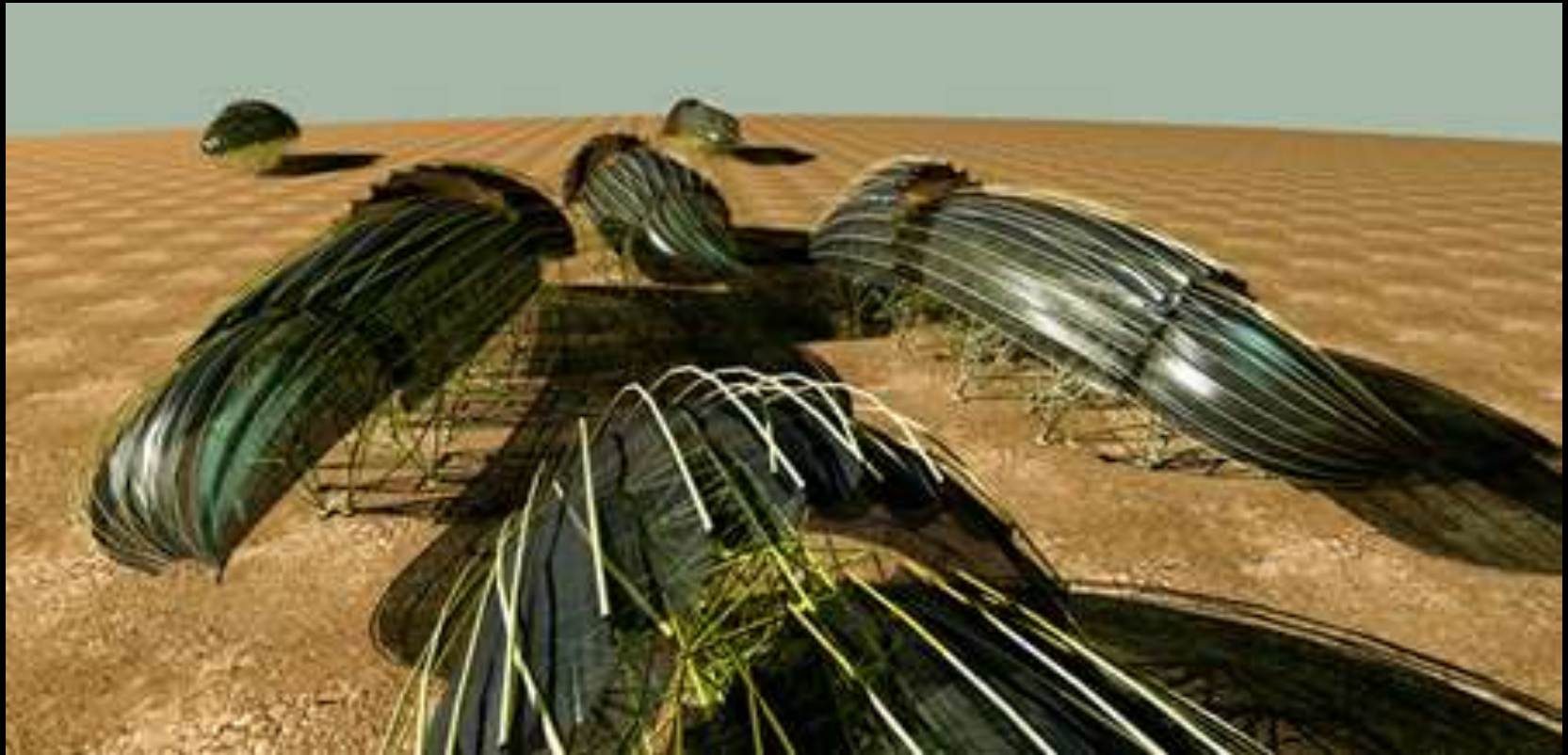


- ... then he has created fantastic walking creatures that have evolved in complexity but still using this simple building block.



- Now... Walking – use wind energy
- Created creatures that have ability to pick up sand and water

... Crazy idea??



*A Render of one of his future visions*

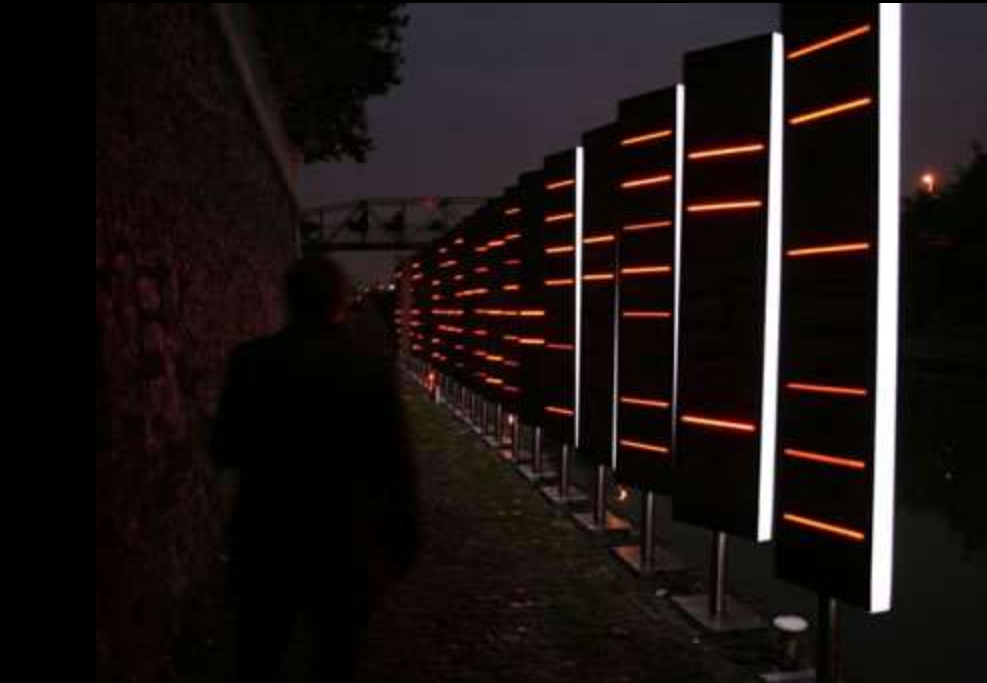
Once a year...



Case Study-2


# BINARY WAVES IN ARCHITECTURE

# fLUX binary waves




- Site Analysis:
  - Infrastructure : passengers, car
  - Communication: mobile phone & radio...
  - Geographic condition
- Kinetic rules – urban activities



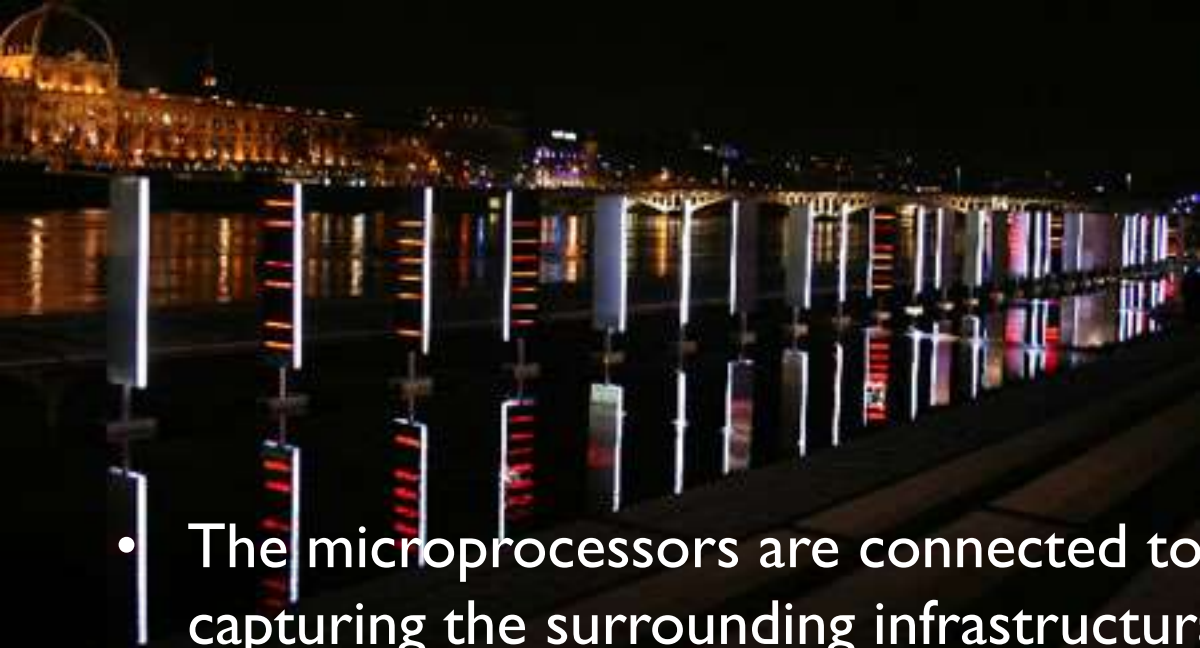
 Share Video Link

 Play Again

 More videos from RealPlayer



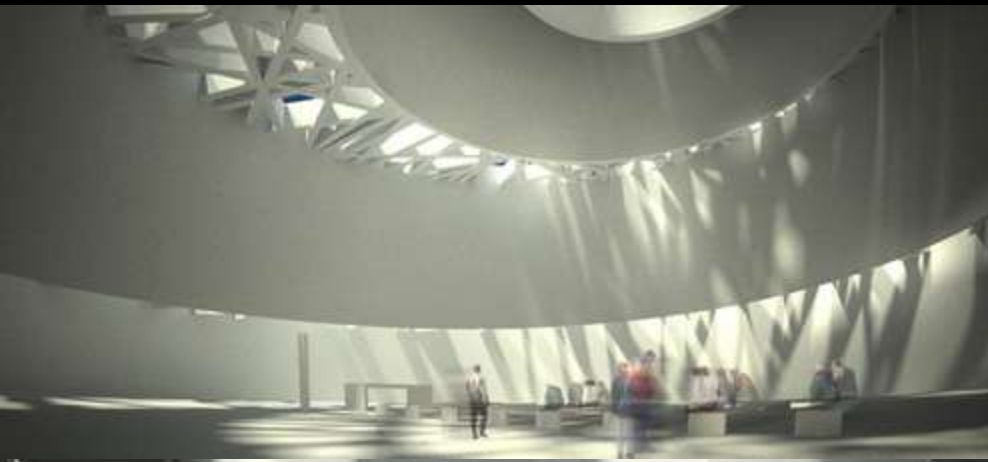
- Size: 32 rotating and luminous panels of 3 meter-high and 0.60 meter wide, placed every 3 meters
- Element of the Binary Waves:
  - Urban activities
- Rotation- vertical axis
- Black reflective surface | side
- Controlled by microprocessor

- 
- The microprocessors are connected to infrared sensors, capturing the surrounding infrastructural flows, defining the frequency and amplitude of the rotation.
  - unified play of light, colours and sounds directly derived from the rhythm of the city flows.
  - urban flows in a contemporary play of kinetics, lights and sound.

# SAMPLES – IN ARCHITECTURE



*Bonnemaison and Macy's work with dancer's motion transformed into tangible, habitable structures called Gestures*



Multiconfessional Pavilion - ARTEKS  
Arquitectural



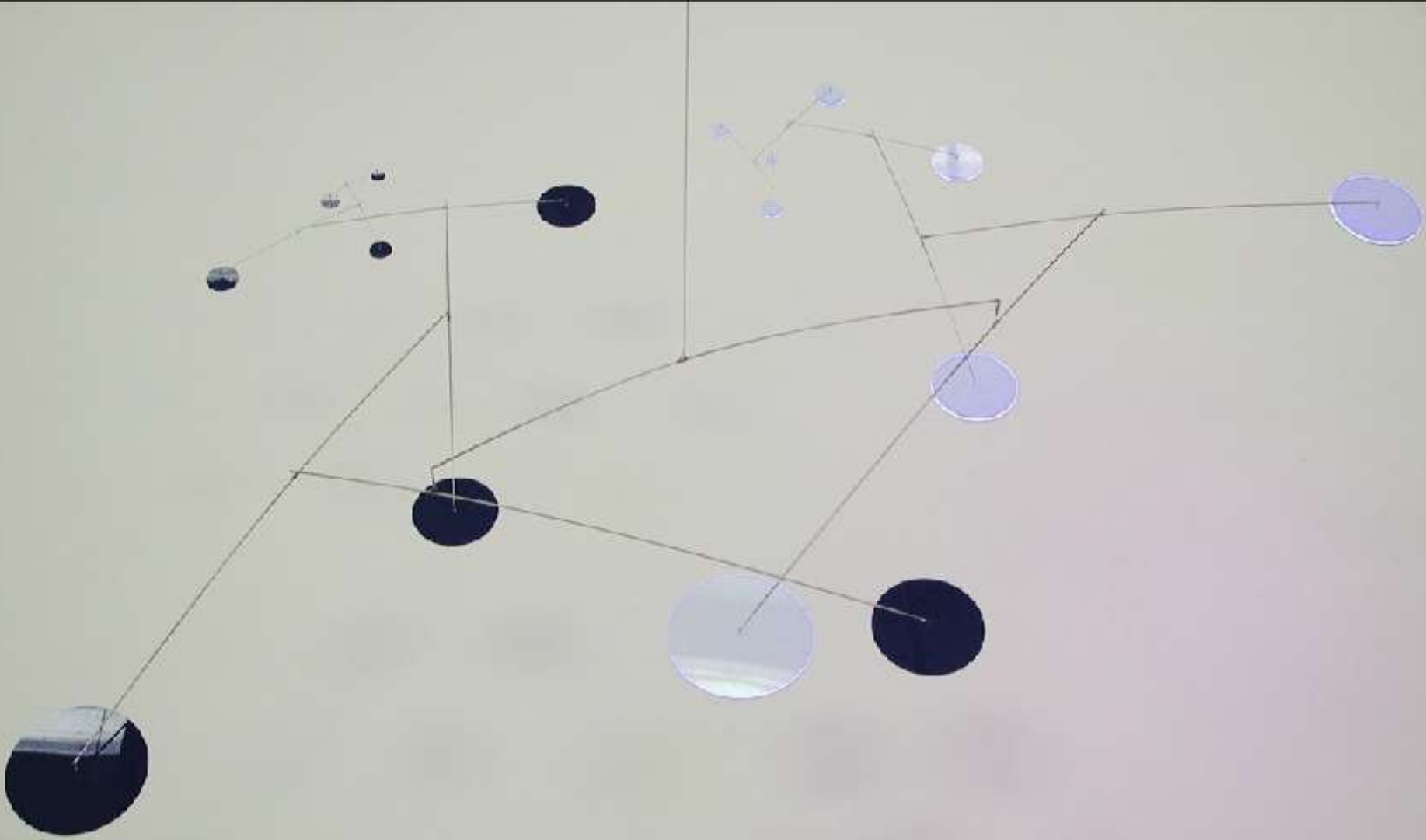
# KINETIC SCULPTURES

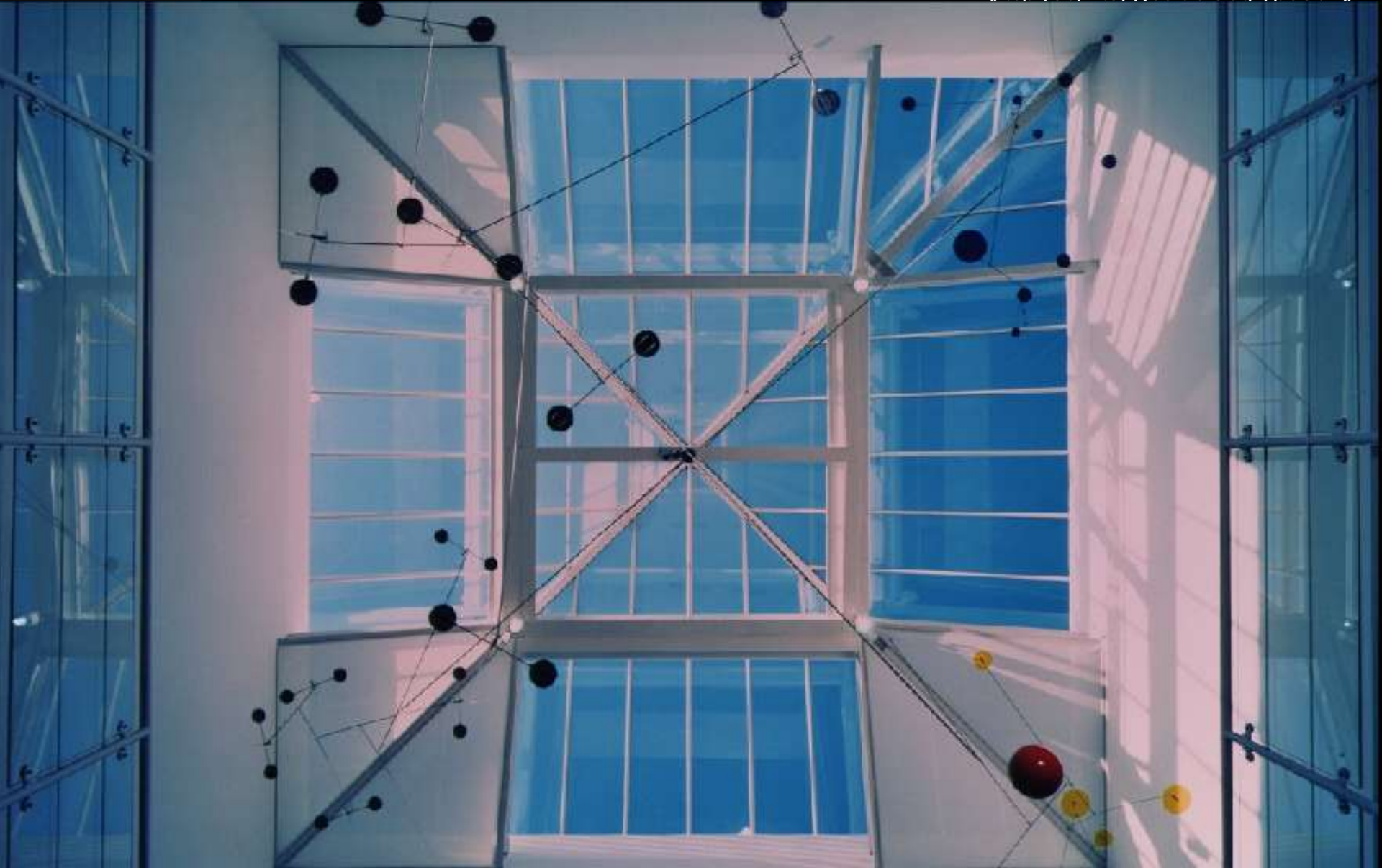
Flying Object

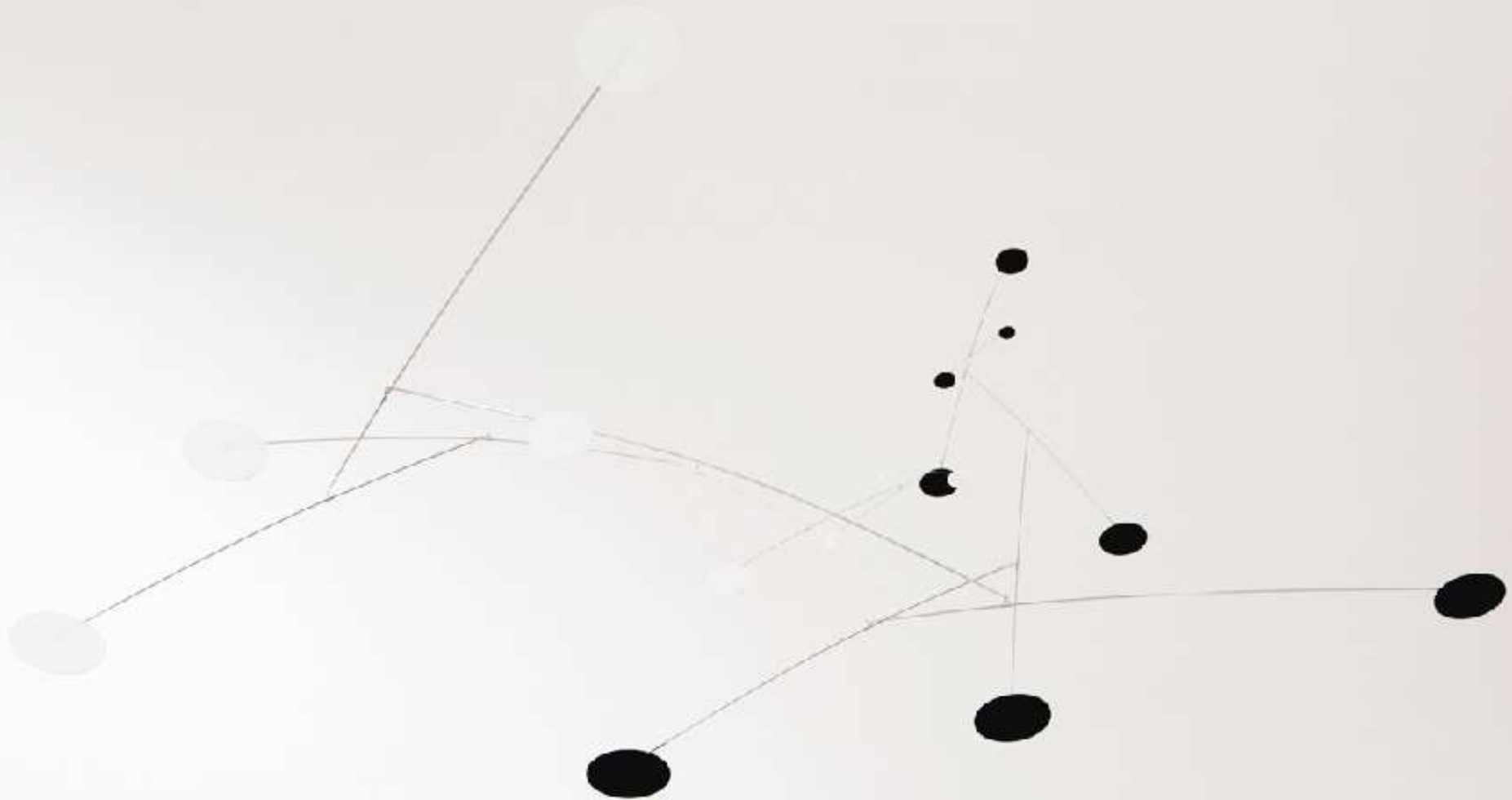
# ASSIGNMENT 1A

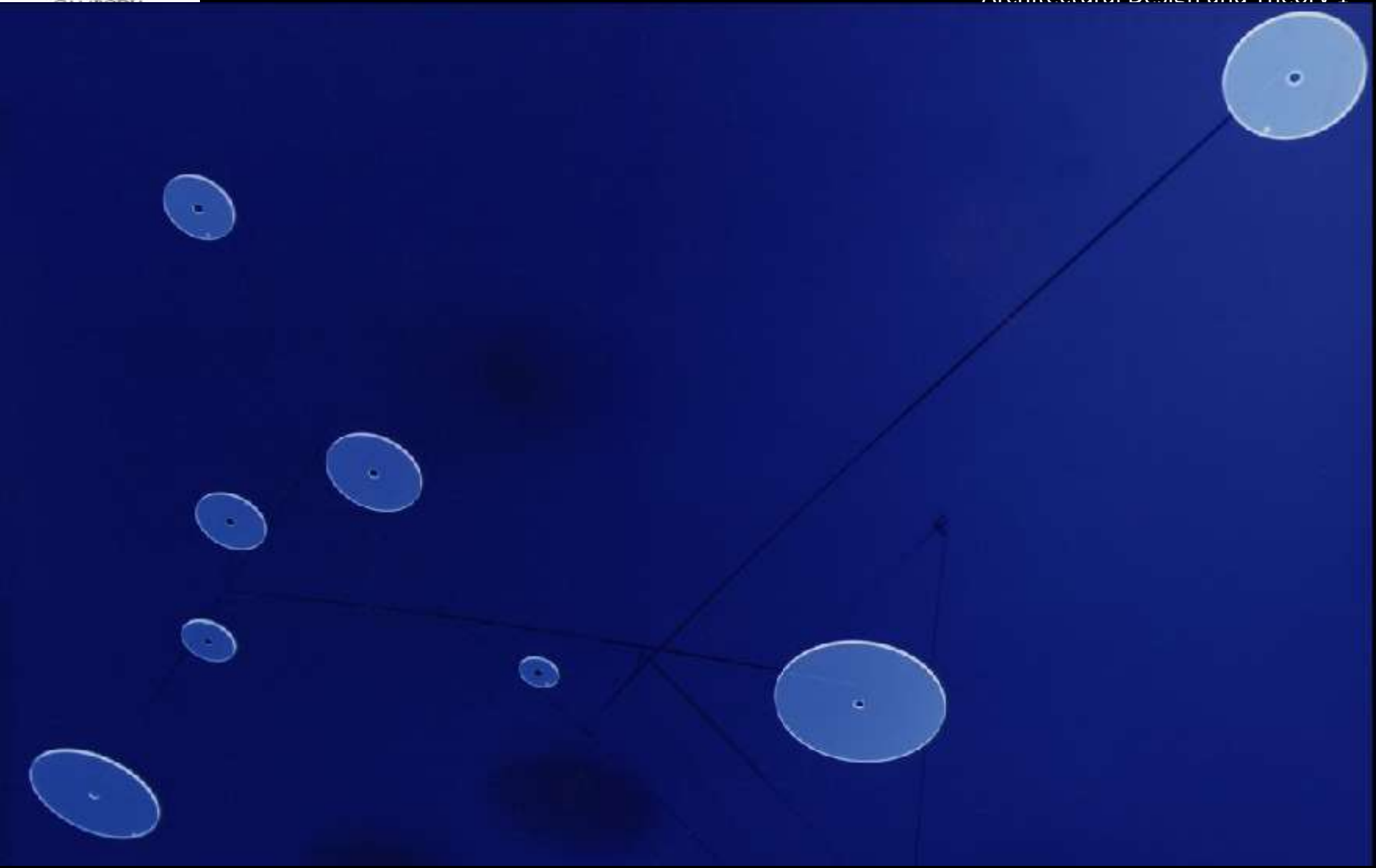


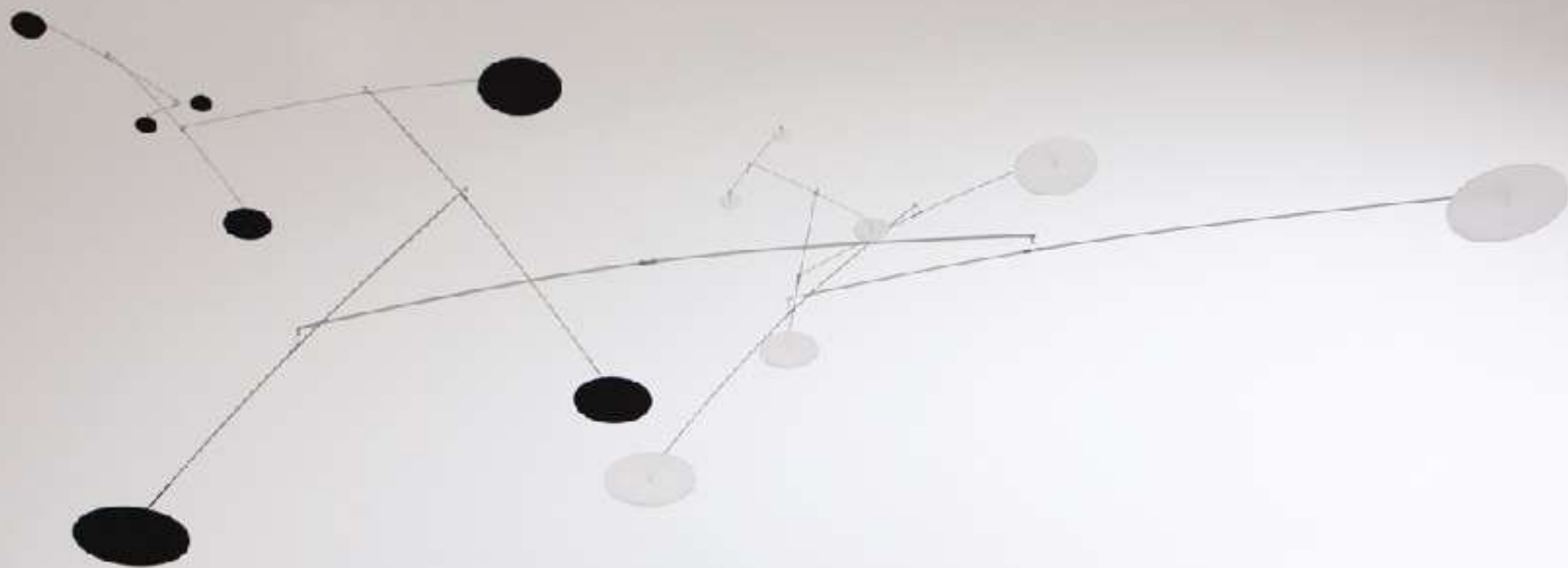








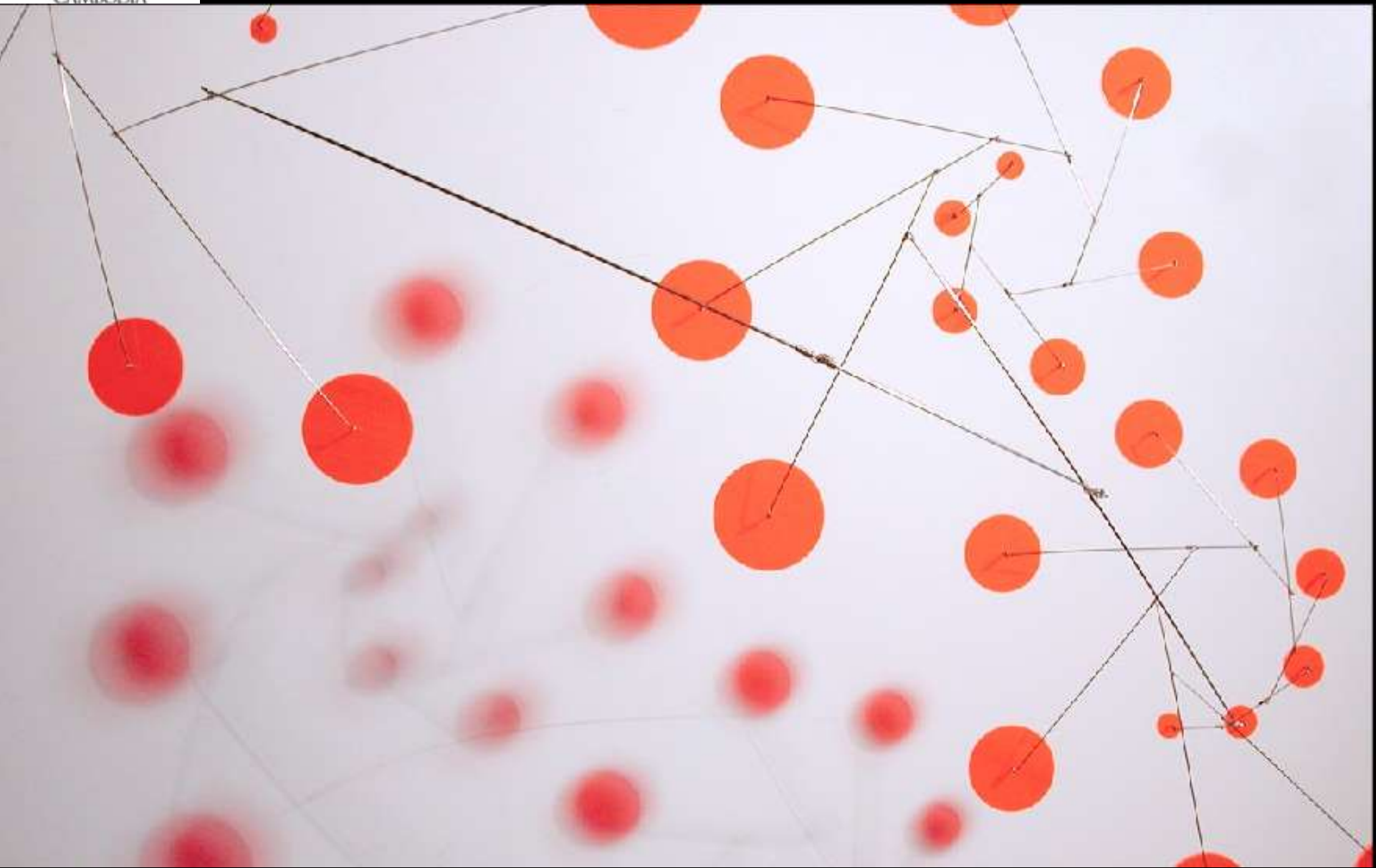




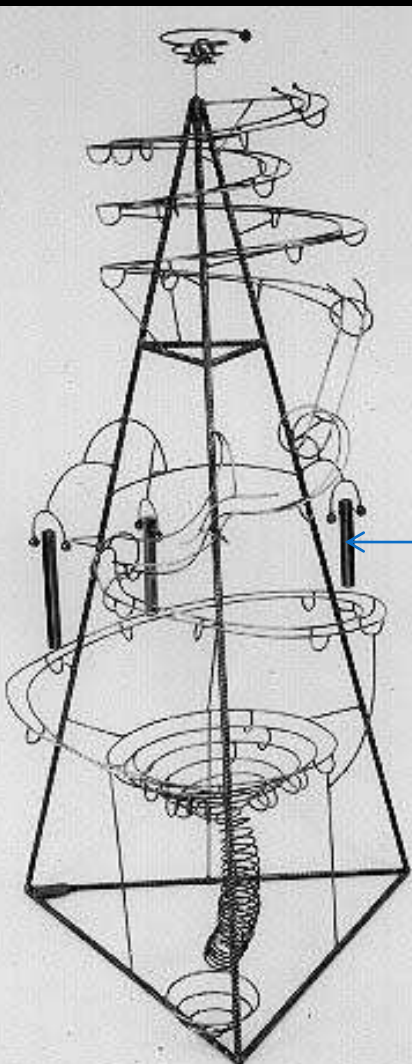








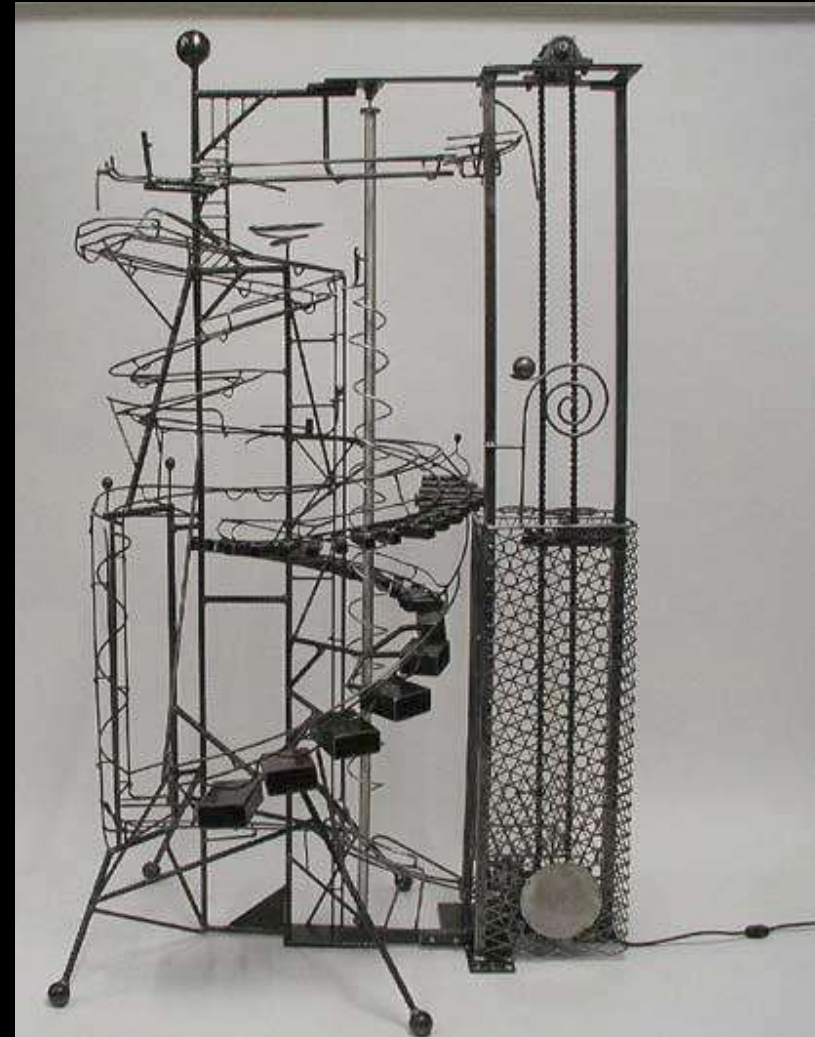
# Assignment 1 B: Rolling Ball

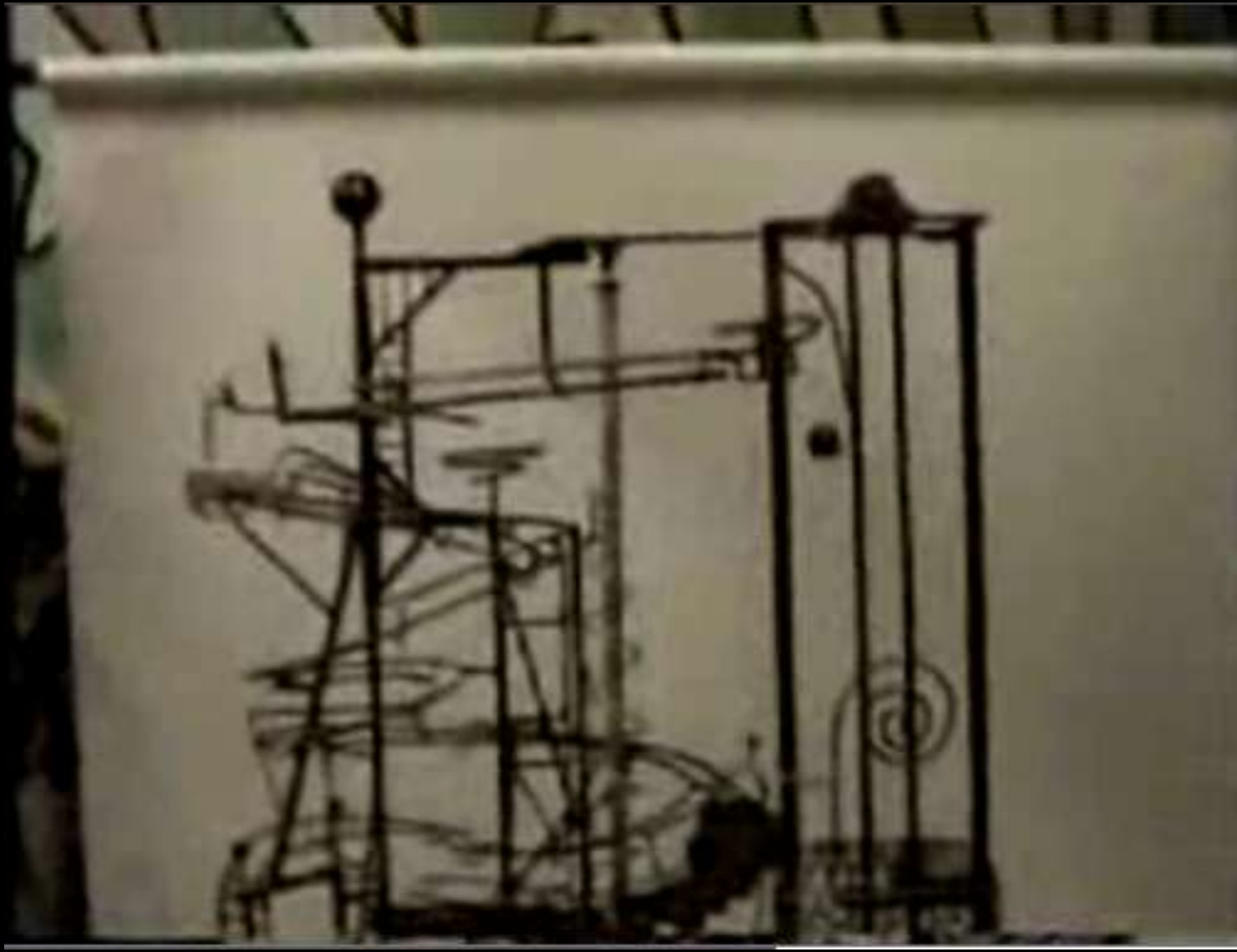


"California Dreamin"  
(81x50x32)  
\$15,000 and up.

chimes

"Cheborgie "  
(80x36x37cm)  
\$6000





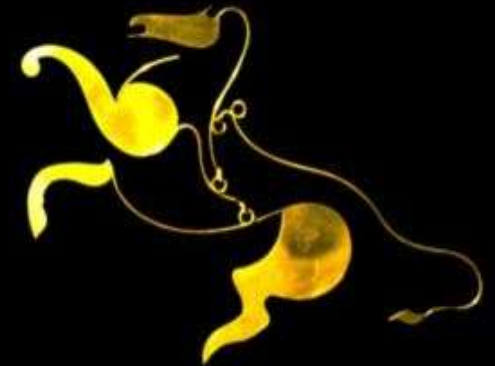


- "Soundgarden"  
(53x46x11)
- \$6000

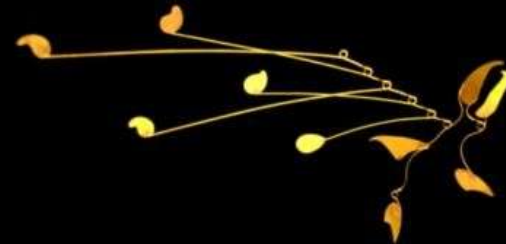
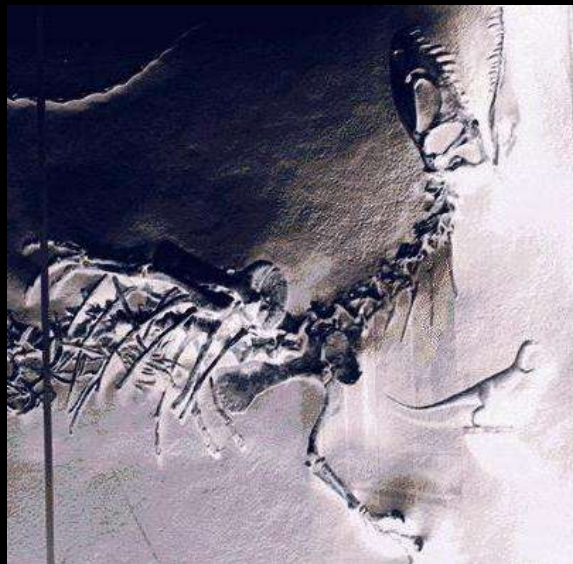


# NATURE INSPIRATION

# Nature Inspiration



House



Fossil

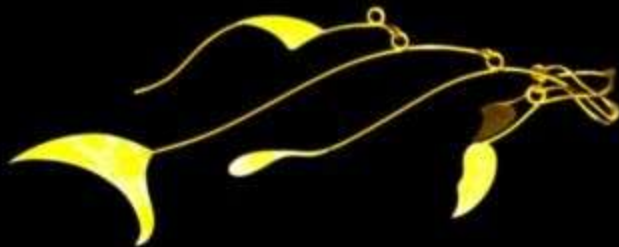




Bull-stop



Fountain



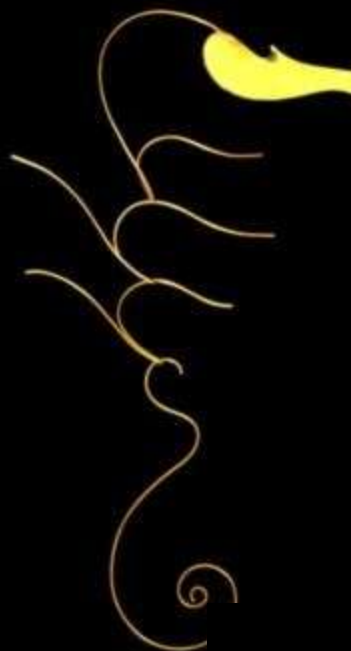
Bull-stop



Cat



Bryony



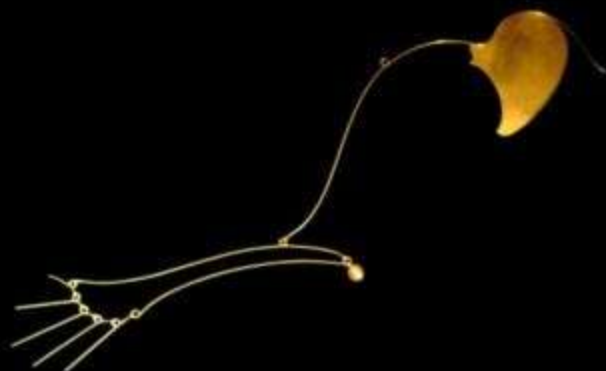
Seahorse



Cello



Raptor



Arm

# Sources

- <http://www.nga.gov/exhibitions/caldwel.htm>
- <http://www.kinetic-art.org/>
- <http://www.brucegray.com/>