

Bronze Foundry Craftsman

Monumental and Fine Art

Waxwork

Pour team

Ceramic Shell









www.doeringarts.com

Public Schoolteacher

Algebra

English

Science

Art

USA +Sweden

1997-2009





HDK Steneby, Göteborgs Universitet

MFA
Iron and Steel in
Public Space



Brilliant workshop

Excellent instruction

Freedom to pursue

Art and Science



Solar Sail - 2011 Steel. 4m x 2.5m x 2.5m Jeffrey Doering

How can we bring science to public space?

- Scientific Instruments:
 - Scale
 - Insight
 - Design
- New Materials
 - Rewards
 - Challenges
- Experiment / Experience
 - Genuine vs. Meta
 - Designing a moment
- Partnerships
- Looking Ahead
 - Collaborations
 - Possibilities

Scientific Instruments: Scale





Solar Sail - 2011 Steel. 4m x 2.5m x 2.5m Jeffrey Doering

Measuring Energy - 2011



R.O.M.P. 2012

Randomly Oscillating Magnetic Pendulum
15 Meters





Looking inside and out: Open Telescope – 2013







interact

Look, focus understand understand Telescope.

Table Telescope

Table Teles





seeing the world



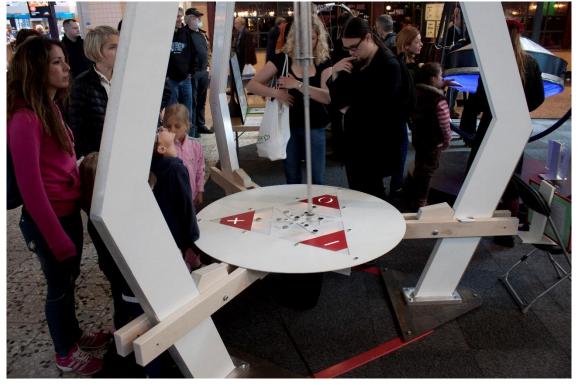
Design Elements



- Aesthetic
- Adjustability
- Safety
- Portable/stationary
- Symbolic

Communication





Experimentation

- Open mind
- Unexpected results welcome
- Many variables
- Feedback/evaluation
- Lifelong learning





New Materials

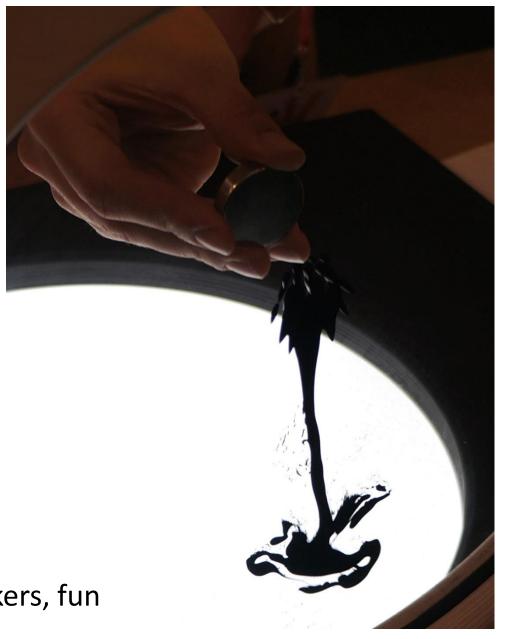
- To build with: ex. Ceramic bearings, plastics, carbon fiber, exotic metals, illumination – led, argon
- To demonstrate: ex. Magnets, Ferrofluid, and...?
- Requires access expensive, hard to find, hazardous, etc.
- Experimentation must establish protocols, observation, dialogue with material





Ferrofluid

- Suspension of iron nanoparticles in oil
- Developed by NASA
- Common uses Brake systems, loudspeakers, fun



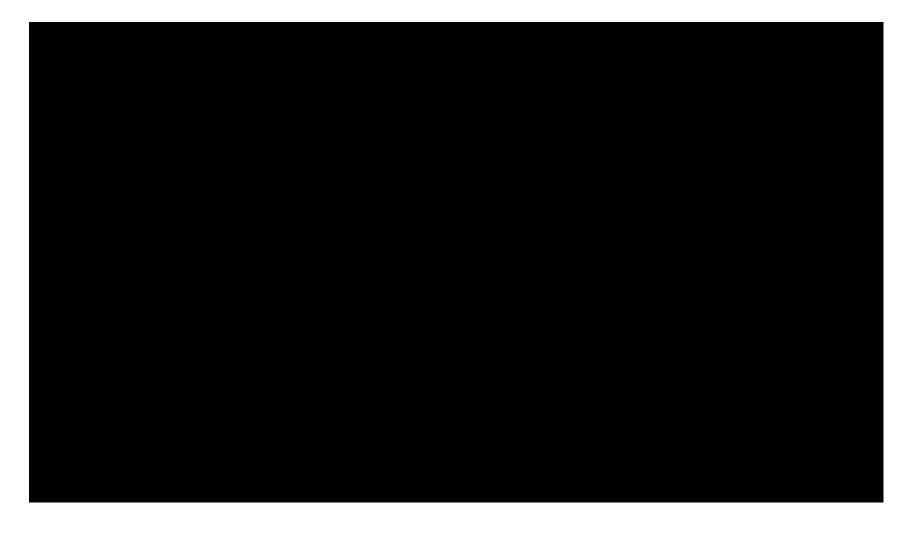
Designing a Moment





Interactivity

- Educational advantages:
 - Gardner, Dale
- Play
- Co-operative experience
- Real experience (not meta) most powerful



Partnerships: examples

- Private Sector CZ Ferro
- Industry Thyssenkrupp Materials Sverige
- University
- HDK Joachim Harryson





Chalmers - Professor Per-Olof Nilsson





Looking Ahead

- Collaborations
 - Scientific Community
 - Education
 - Public Space
- Possibilities
 - Chalmers
 - Göteborg
 - Developing open understanding bridging gaps
 - How can we bring science into public space?

