catalyzing Innovation in Art + Design at Frontiers of Science

art science labs
ArtScience is a process that insists on collaboration across boundaries of art and science to catalyze innovation and accelerate the realization of novel ideas.
We are interested in the process, not the outcome, of creativity.
The culture of the contemporary science lab ...
… with an outcome of cultural, educational, social, or industrial relevance …
Over the past ten years David Edwards has started many “labs”... Now ideas translate through these labs...
... Often to produce for-profits and not-for-profits around the world, including the US, Europe and Africa...
... a funnel of ideas ...

Idea Translation Lab @ Cloud Place

Le Laboratoire @ Paris

Startups

Mend

The Laboratory @ Harvard

Nonprofits
... ideas move through an idea funnel ...
Contemporary Art Projects

Artists work with scientists to produce innovative contemporary art at the cutting edge of modern science.
Design Projects

Designers work with scientists to produce innovative designs at the cutting edge of modern science.
Food Projects
Chefs work with scientists to produce innovative new molecular foods at the cutting edge of modern science.
Humanitarian Projects
Creators work on projects that aim to catalyze innovative thinking in the fight to improve global health.

Dirt Power A MICROBIAL FUEL CELL SOLUTION FOR AFRICA
Industrial Projects
Outcomes can lead to innovative products with societal impact.
Philosophy + Professional Projects

Educational Settings
Idea Translation
interdisciplinary work in the arts and sciences
unique curricular components of the program
combination of aesthetic and analytical modes of thinking
Aspirational Design
Skill-Building

Presentations on April 1st

- Uses for your dollars
- Arch models/sketch up $15
- "Not a Jellyfish" slide screen, basic
- Jelly fortune
- candy/cookie
- Stickers
- Poster
- Aquarium/video

Little Jellies
- Jelly Blast
- Jelly Invasion
- Jelly Fix
- Jelly Palm
- Jelly Roll
- Jelly Rap
- Jelly Kick

Jelly Invasion
- Got Jelly?
- Jealous

Environment
- Camera Lenses
- Water
- Life cycle
- Colors/boy communication
- "Bread"
Community of Support
Starting Seed Idea: Dream Player

What if you could wear a cap at night, and the electrical (EEG) data gathered by the cap somehow recaptured your dreams, and in the morning, while you’re brushing your teeth, you could watch your dreams, a kind of fascinating morning television! Would you tune in?
Sweet Bottles

Starting Seed Idea: Edible Bottles

Can we design bottles that mimic nature’s method of water transport? Nature carries water in things like apples, grapes, coconut shells, things you can eat, or open up, and know that what you discard in the end, nature can use. Maybe the bottle of the future is an orange! How would you design it?
Starting Seed Idea: Public Water Art

Imagine public works that bring water to our consciousness, somehow in the spirit of Olafur Eliasson’s East River waterfall installation in New York City. Could public works, say in a school, drive resources and attention to water conservation?
The International ArtScience Labs Network
continuity

How can learners be supported to make conscious & strategic bridges between what they learn in one setting and another, to be cumulative over their lifetimes?
How can projects explore community partnerships and creative learning experiences that are **relevant** to and **inclusive** of all learners, at all learning levels?
breadth of science practice

How can... (learning about scientific) phenomena be leveraged to engage learners in all aspects of science practices such as reflection, abstraction, or grappling with scientific principles?
How can such unconstrained experiences be supported to demonstrate what learners know and can do, in ways that are seen as legitimate by themselves and others?
professional development

What can be done to develop and support a network of professional development opportunities to take advantage of this enormous resource?

coherence

How can increased coherence of effort & impact be achieved, while maintaining innovation?
providing access points
engaging interest
breaking down silos & encouraging new ways of thinking
What does the **art of science learning** mean to you?
Although science and arts are considered separate subjects in my school's curriculum, ArtScience has helped me link the connection between the arts and sciences. In developing our ideas, I was able to gain knowledge in the Sciences and use the creative aspect of art to attempt implementing our ideas.

~ Jasmine, ArtScience Prize high school student