

CREATIVE INCUBATORS FOR A COMMON CULTURE



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Wearing three hats-artist, context provider, theorist

Lets hope the embryos are listening

SPECTRA Adelaide



INTRODUCTION CULTURE

ART SCIENCE AND **CULTURE**: combining approaches in relation to experiment building, teamwork and the public

1. Non-material -interlectual achievement regarded collectively: arts-philosophy-science

-the cultivation of attitudes, behaviours, ideas and problems to share with society

-Social attitudes, customs and behaviour of a particular group

-Attitudes toward the material (or the need for it) or way of life

-the cultivation of attitudes, behaviours, ideas and problems to share with society

2. Material culture-to create, use, and assign meaning to material culture

-Biological cultivation-tissue, cells, agriculture, agronomy

-Objects, installations, spaces

-Cultivation, growing, farming Agriculture, husbandry, agronomy



INTRODUCTION CREATIVE INCUBATORS

What is a creative incubator –a System With Its Own Logic?

A warm physical space and a psychological environment conducive to a growing collaboration based on creative endeavours between art and science practitioners and theorists.

CREATIVITY

Construction-bottom up approach, experiment building, experiential, educational and playful in nature.

THE INCUBATION PROCESS OF CONTEXT PROVIDERS

Facilitators offer a safe place to fan the flame of creativity where life takes meaning and then takes wings. They treat art and science as social entities –where hands on knowledge inside labs of cultural significance- time consuming labour, intensive activities.

The Act of maintaining controlled environmental conditions for the purpose of favoring growth or development of “cultures” and to maintain optimal conditions for reaction.

Against CP Snows 2 culture dualist senario.



INTRODUCTION- CPSnows 2 culture theory 1959

THE LINE ANALOGY

Where does one place oneself or ones team
along this line of creativity?

How are aesthetics transfered along this line?

Where are the strategies of communication most valued?

The Arts

Ambiguous,
viseral,
poetic metaphorical,
intervening
postulative

The Sciences

Deductive,
didatic,
factual
analogous
postulative

Communication
Design/ Social Science



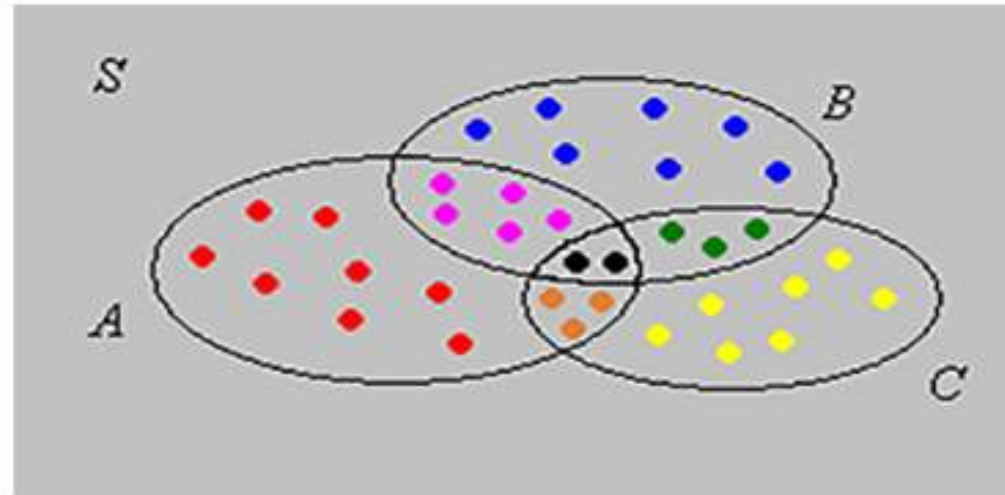
INTRODUCTION-FACILITATING A COMMON CULTURE

AN INCLUSION/EXCLUSION THEOREM FOR 3 CREATIVE DISCIPLINES ?

How can we build **VALUABLE** experiments together?
How can we learn more about each others processes?
How can the creation of new interspatial zones
of experimentation engage with the public?

s=INTERSPATIAL ZONES

Ambiguous,
viseral,
poetics metaphors,
intervening
postulative
critical thinking
Deductive,
didatic,
factual
analogous
postulative
lateral thinking



A Artists

B Social Scientists/Designers

C Scientists



INTRODUCTION Interspatial Zones.

Creative Incubators- an interspatial zone to generate of knowledge, based on **situated, tacit, lateral and critical engagement.**

Encourages-the sharing of findings with experts and on-expert interaction, often disciplinary-specific technology combined with an increase in intuitive unspoken methods.

(Medicine) An interval between the ribs or the fibers or lobules of a tissue or organ.

(architecture) An air space. (Physics) An interval of space or time.



INTRODUCTION COMMON CULTURES

What is a Common Culture: People are more important than disciplines.

A space where experts meet with non-experts to share ideas about impacts for the common good. A space where rights are jointly owned by its members. A space that addresses the use and manipulation by mass media

COMMON CULTURAL ACTORS: actors interconnect here with actions and discourses that externalize their mental states (for instance, their motivations, emotional and need-disposition) with the help of symbols in order to grant their co-actors the opportunity to do the same.

Talcott Parsons

Common Culture of art and Science can create:

As a System With Its Own Logic

A Code

A feeling of Social Integration

An Energetic Subsystem

The **tragedy of the commons** –independent actions-based on self interest motivations (Social Science) ENNSER



ARTISTSINLABS- My Context provision Incubator

The AIL is a cultural studies program. It focuses on the current debates and discourses in order to promote a closer understanding between artists and scientists

Science Disciplines:

life sciences, physics, engineering and computing

Art Disciplines:

art researchers-film, video, new media, sound art, sculpture, architecture, theatre and dance.

Our Role is to analyze the shared potentials:

Of discovery, of systematic methods of critical analysis,
of human behaviour, of empirical observations,
of criticism of science / technology, of ethical discourses and public understanding

We do this through : **ADD Residencies list**

Interviews and reports

Conferences and exhibitions in Art contexts as well as Science contexts

Publications of the analysis



COMPARING CREATIVITY

AIL was designed to bring our awareness to what was previously hidden in this exchange and point to new ways of thinking about it.

It required Tacit knowledge-

knowledge that cannot be adequately articulated by verbal means, including skills, ideas and experiences that people have but are not codified and may not necessarily be easily expressed. Effective transfer of tacit knowledge generally requires extensive personal contact, regular interaction and trust. [Michael Polanyi](#) 1958 *The Tacit Dimension*

And an understanding of the way creativity is employed in Experiment Building

Science: Here **creativity** requires motivation, an access to a body of systematic knowledge, an ability to correctly formulate research problems and to define a comprehensive problem space or search space. Requires patience and stamina.

Art/Design/ Architecture Experiment Building

Here **creativity** is linked to the process of bringing something new into being. Methods like assembly, reduction or play require physical skills, passion, commitment and bravery.



INTRODUCTION

Main Focus: educational and experiential in nature Since 2002. Housed at the ZhDK

Immersion:

in order to develop artists interpretations and inspire their content. Including “hands on” access to scientific tools

Know-how transfer:

attend lectures and conferences held by the scientists themselves. Give lectures to scientists about contemporary art, aesthetic development and the semiotics of communication. Exchange of research methods and methodologies.

Collaboration:

extend potentials by the creation of friendships, sharing of discourses, observation of each others processes



INTRODUCTION

OTHER ESTABLISHED CREATIVE INCUBATORS-OR FACILITATORS **SYMBIOTICA** **SYNAPSE**

What other methodologies could be invented to deepen the art and science exchange? What Proof will we Accept as Valid Knowledge in the ARTS?

Are artist who work in science re-defining the “communication of knowledge” ?

What does it take to encourage more collaborative interest from the science side? Can focused Themes help, like Global Warming help?

How can activist strategies be shared? Roles of Artists and Scientists in the public realm? To provoke or to raise awareness?



INTRODUCTION- INCUBATORS+ news ways of thinking

Can new ways of thinking become lateral and critical compared to deductive and inductive?

- Any lab in design, art or science is a space that requires deductive or inductive thinking often starting with the question: “What would happen if?”
- Most labs require a self-directed, self-disciplined, self-monitored and self-corrective way of thinking
- But lateral, critical thinking includes:
 - making associations from unrelated fields,
 - questioning common wisdom,
 - observing behaviour and new ways of doing things,
 - networking for different ideas and perspectives



LATERAL THINKING

LATERAL THINKING

“The solving of problems through an indirect and creative approach, using reasoning that is not immediately obvious and involves ideas that may not be obtainable by using only traditional step-by-step logic”.

Lateral Thinking: 1967 Edward de Bono

- This can spill into thinking about communication in new ways that traverse the spatial realm of peer to peer justification in both the tangible and non-tangible art, communication and science fields.
- Teaching people how to think in about the future of knowledge, by sharing more process from mobilization to stabilization and destabilization (Latour)
- Tacit art knowledge and experimental approaches to material and immateriality can inspire those with new levels of hybrid creativity



INTRODUCTION

MY METHOD:

Standpoint theory is a social science theory for analyzing [inter-subjective discourses](#).

"intersubjectivity" only happens between people if they agree on a given set of meanings or a definition of the situation.

MY QUESTIONS:

Why are artists and scientists motivated to work together and what are the questions and processes they have in common?

How do different points of view expand ways of thinking in the Arts and the Sciences and in the public understanding of these fields of practice?

**ARTWORK EXAMPLES-Focus
on the Life Sciences
Sharing common themes-to
create a common culture**



Creative Incubators for: Here knowledge transfer is a cumulative experience that artists have developed from their own field of practice and, as well, those “truths” abstracted or appropriated from science.

1. The Growth of Life and the study of Behaviour

Biologists and bio-artists –Neuroscientists and Neuromedia artists

2. The understanding Matter and Energy, Physicists and Artists

3. The monitoring Air Pollution, Ocean Quality and Animal welfare

Environmental Scientists and Artists

4. The promotion of community engagement, access to technology or design-to- context. Social Science and Citizen science.



THE CREATIVE INCUBATOR

Traditional Incubators

1. Growth Life and Behaviour

A temperature regulator, air circulation, oxygen levels and humidity; controlling the conditions that can help a premature life to grow, change or survive. In-vitro fertilization -the womb is called an incubator (surrogacy-patriarchy)

2. Matter and Energy,

In theoretical physics, a research factory of talents, one that contributes every day to advance knowledge on matter and energy.

3. Air Pollution, Ocean Quality and Animal welfare

In environmental science the whole planet is giant incubator, one in which the humans are doing the warming! (Latour 2012).

4. Community engagement, access to technology or design-to- context. Social Science and Citizen science.

Discourses between art, science and society.

Creative Incubators for The growth of life and the study of behaviour

“Oncomouse”: *“Like other family members in Western biocultural taxonomic systems, these sister mammals are both us and not-us; that is why we employ them.”* Donna Harraway (1994)

The body is our general medium for having a world. Maurice Merleau Ponty 1955

•BIOLOGY/bioart NEUROSCIENCE/Neuromedia





CONTEXT PROVISION-ARTISTSINLABS:

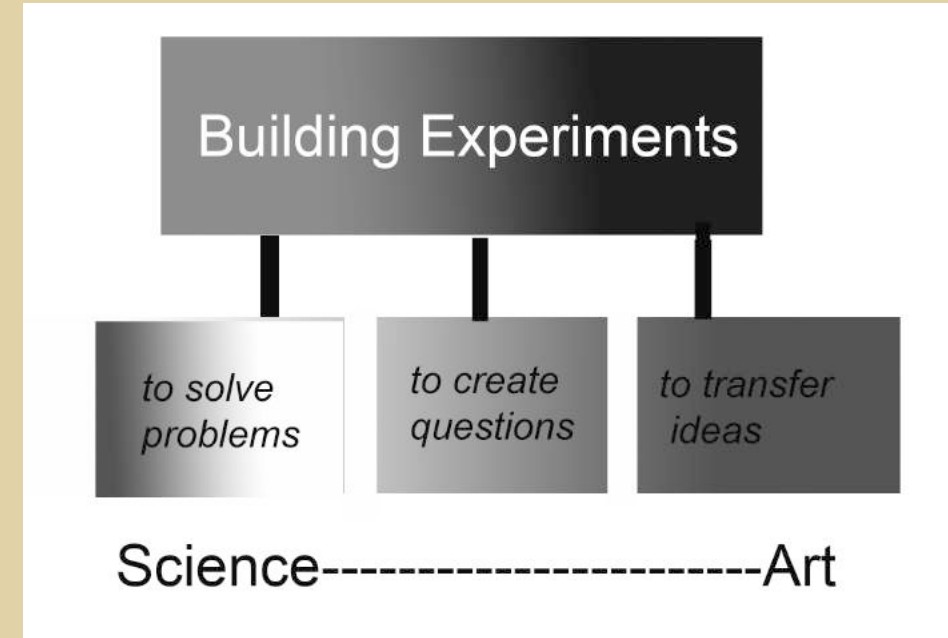
Our Research:

-How “hands on” experience might provoke unorthodox responses to experiment building-

-How deeper insights and understandings might emerge from lateral and critical thinking

-How motivations, processes and practices can lead us all to more teamwork

-How Interspatial zones affect the roles and how they are changing





GROWTH LIFE AND BEHAVIOUR

- **FOR GROWTH, LIFE AND THE STUDY OF BEHAVIOUR**

- **BIOLOGY-BIOART**

- **NEUROSCIENCE-NEUROMEDIA**

- In neurobiology-temperature regulator, air circulation, oxygen levels and humidity; controlling the conditions that can help a premature life to grow, change or survive

- **TRADITIONAL INCUBATORS IN BOTH DISCIPLINES**

- **1.** to provide proper conditions for growth and development of bacterial or tissue cultures.
- **2.** to foster disease from time of the entrance of the pathogen to the appearance of clinical symptoms.
- **3.** to develop of the embryo in the egg or in–vivo



GROWTH LIFE AND BEHAVIOUR

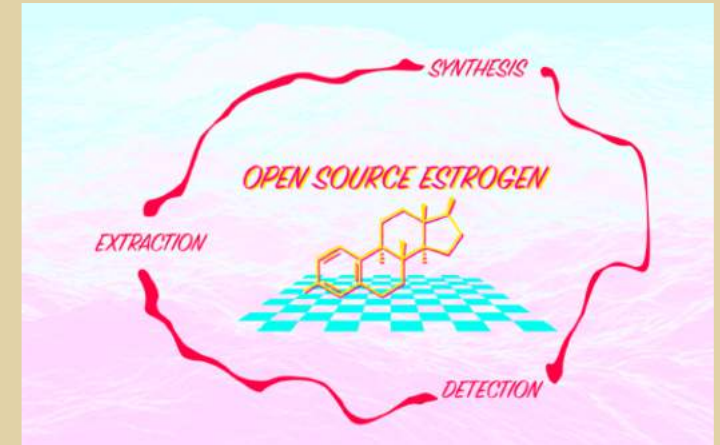
Open Source Hormone -**Estrogen** Mary Majic

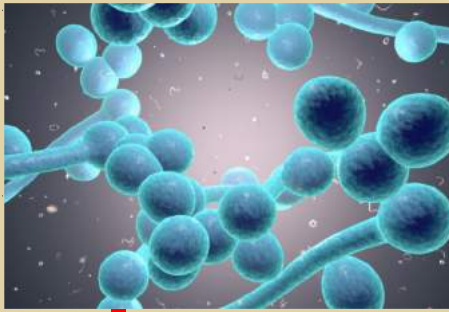
-develop DIY/DIWO protocols for the emancipation of the estrogen biomolecule.

-To give citizens the ability to measure hormones in the environment?

-To share the knowledge of biotechnology that are required to carry out such a process?

IMAGE OF
LAB TECH
MEASUREMENTS





Tash Bates

The Tangled Field:

Barbara McClintock's 1931 discovery of the controlling elements of genetic regulation –

She proved that genes can be mobile and “jump” around to change their positions on chromosomes and that there genes are responsible for turning physical characteristics on and off.



GROWTH LIFE AND BEHAVIOUR



Candida albicans are omnisequential and polymorphic, able to switch between asexual and sexual reproductive strategies and several morphological states



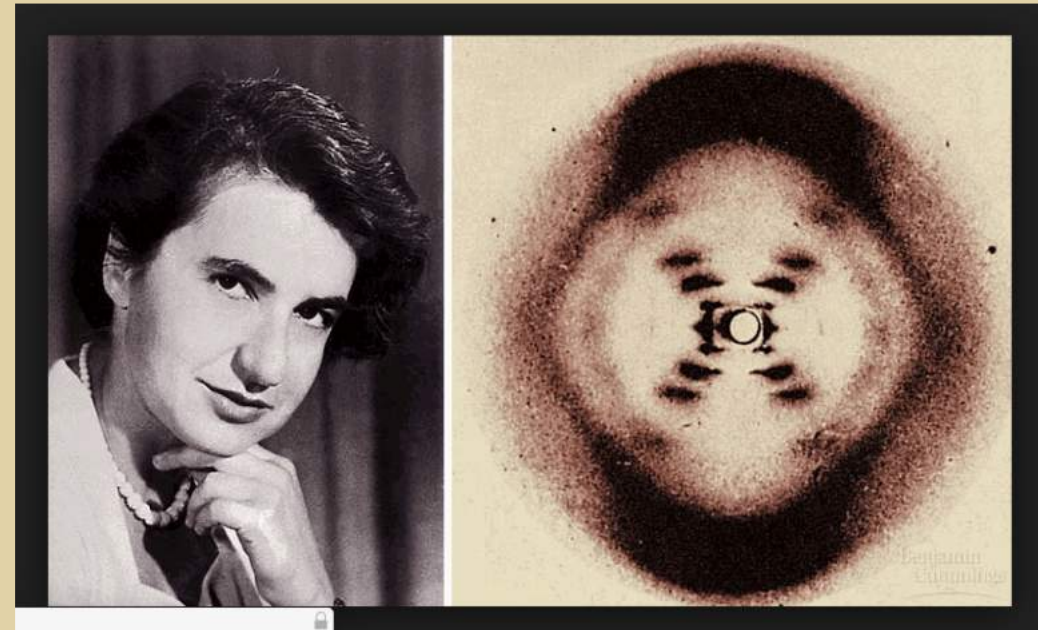
Scientific cinema is part of a broader tendency in society toward the technological surveillance, management and physical transformation of the individual body and the social body.

Lisa Cartwright (1996)

Medicines Visual Culture

Molecular images of the body are a kind of “self-portraiture”

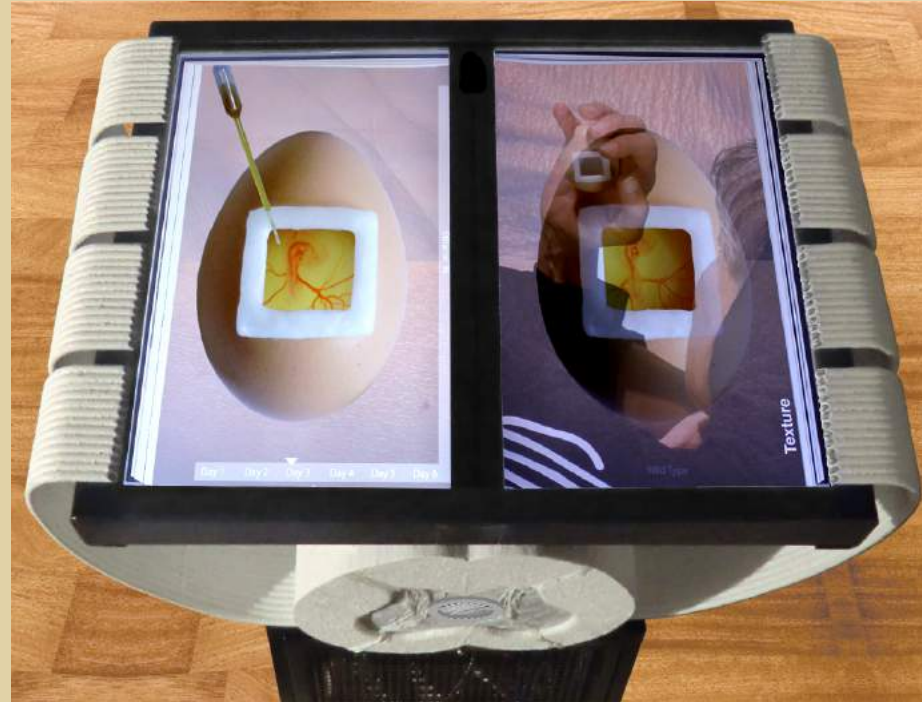
- Blurring the boundaries of the interior and the exterior of the body
- Images that provide us with microscopic windows that question our own behavior.



Rosalind Franklin 1945
DNA X-ray crystallography



GROWTH LIFE AND BEHAVIOUR



SOMABOOK Video of the chicken embryo (Somabook)

Somatic Cortex:
5 overlapping representational maps help us to function/be embodied in our environment:
Texture, Shape and Size, Stretch, Translation and Correlation



GROWTH LIFE AND BEHAVIOUR



THE SCENT OF SYDNEY (2016 Cat Jones)ADD **NAME OF SYNAPSE SCIENTIST LAB**





GROWTH LIFE AND BEHAVIOUR

AIMS

To use tactile feedback in order to access neuroscience research

To shift the artist's role toward a communicator of more scientifically robust research about neural impairment -raising public awareness

To learn more about molecular and neural research in a novel way

Interaction:

showed resultant loss of functions of molecular activity (tactile hand-axon)

interpreted growth patterns, movement and coordination through movement (dancer)

used the viewers' tactile perception to compare inappropriate connections of axons



CELLULAR METAPHORES

What can we learn from cellular life?

We need to look past the admiration of the surface of nature, go deeper and understand the co-evolutionary behaviour inside our environment.

The cilia is a metaphor for our own behaviour and has many aspects of mediation to learn from: cleansing, moving, sticking, absorbing, transducing, transmitting, etc.

We are cellular life! Inter-dependant teamwork is essential for all survival.

mediators - team-workers

act as intervening agents

facilitate indirect/direct causation, connection and relationships to occur

mediators - researchers

cellular biologist

(co-evolution, development, mutation, completion of cells)

media artist

(perception, communication and cultural difference using

visual metaphors as the method)

Both study behaviour by using technology for interaction and teamwork so: Technology has also become a mediator!



CELLULAR METAPHORES

Do mediators exist in cellular life?
Cilia or Flagella are cellular mediators!

My Focus:

Not aesthetic beauty - (other theorists)
But the new ideologies that may come from the
observation of behavioural beauty and
environmental affect.

What are Cilia?

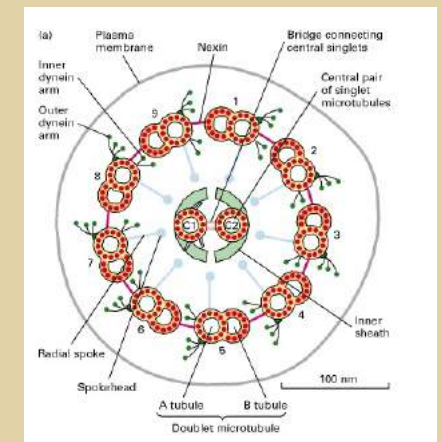
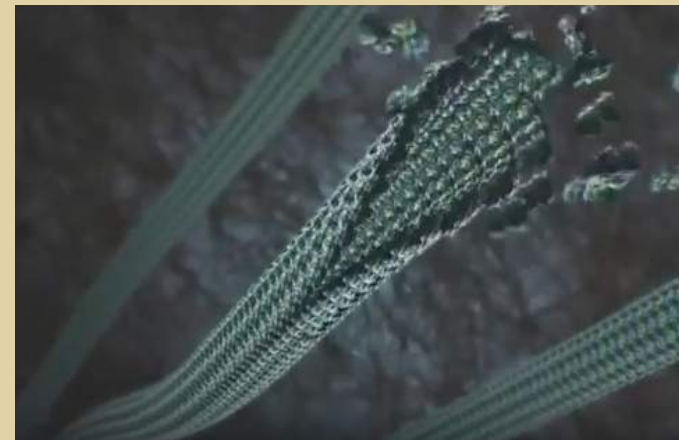
Microtubule structures that act together as
locomotors, filtering systems or transduction
systems.

All work in teams to support cellular life!

Sensory perception

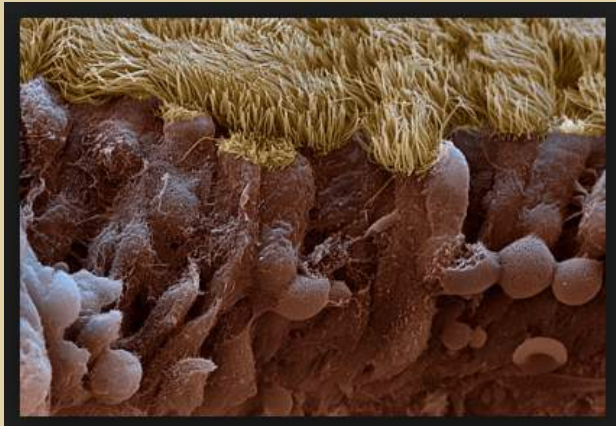
Ciliated cells are essential for the
mediation of chemical and temperature
related agents that cause bodily
perception.

Cilia and flagella are often Microtubule Structures



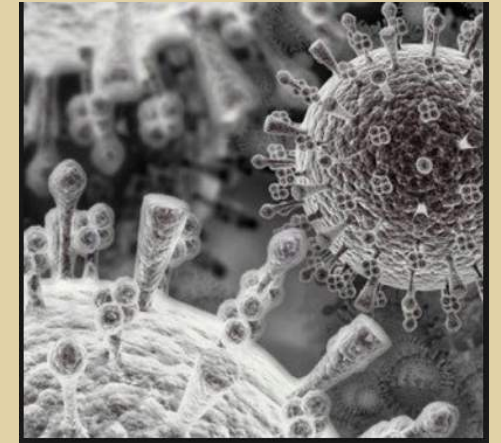


CELLULAR METAPHORES



Cleansing:
cilia that sit on the mucus membranes in your throat and beat together to clear your airways of unwanted particles

Sticking:
Cilia on the Lymphoid Leukosis virus



Moving: cilia aid the Salmonella Bacteria to move

Absorbing:
Mycelium, the cilia of fungi, suck nutrients from the environment





- **RESULTS**

Hybrids of artistic interpretation, computation and neuroscience research about how our sensory perception might be stimulated

Collaborative attempts to demystify the complexity of perception and brain plasticity

Artworks with interactive technologies combining the viewers own perceptive modalities and behaviour

with scientific research in the same subject

Combinations of self-reflection and scientific objectivity

.



CONCLUSION_ GROWTH AND The STUDY OF BEHAVIOUR

VALUE FOR ARTISTS AND **SCIENTISTS**

Growth-Metaphor for post reflection- lateral thinking

explore methodologies in science through hands-on-access to “wet-lab” and “live” cellular and molecular

representations. Use these materials as potential art materials

think about interaction that embodies the users in neural feedback loops in relation to their environment

-investigate bio-mimicry analogies between animal and human subjects

Behavioural Metaphores

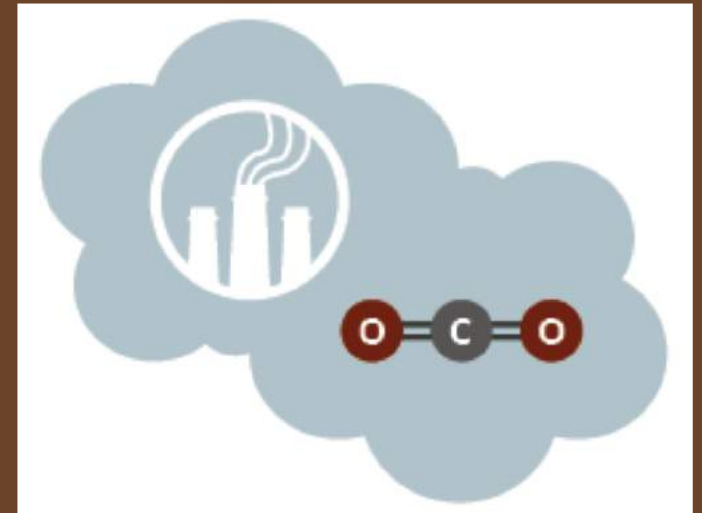
-explore the fields of ability, disability or impairment

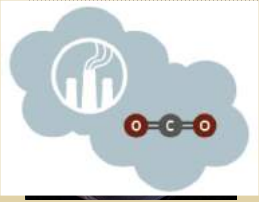
-encourage know-how transfer about our own molecular and cellular structures from robust scientific inspiration

Creative Incubators for MATTER AND ENERGY

**Energy is liberated matter,
matter is energy waiting to happen**
Bill Bryson 2003

PHYSICS AND ART INCUBATORS





MATTER AND ENERGY

- PHYSICS AND ART INCUBATORS

- MATTER AND ENERGY

- In theoretical physics, a research factory of talents, one that contributes every day to advance knowledge on matter and energy. **Because**-one big experiment about matter can house a multitude of smaller experiments - in order to understand phenomena and look for existence

- More invisible and complex- more speculation

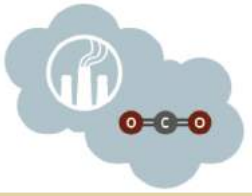
- ASTROPHYSICS –sonfiying data

- PLASMA PHYSICS-expanding physics into art.

“Most of the time science is not very critical at all” Research develops in a pattern of alternating phases based on the starting point of a paradigm-ie theories, concepts and methods that science takes for granted.”

Thomas Kuhn or use Heisenbergs Principal here





MATTER AND ENERGY

Readapting experiments from the past

**Artists: Roman Keller: - scientists
feedback and co-construction**

Rocket for the rest of us (Paul Scherer Institute) 2010

-Used the archives to
find experiments by scientists
that demonstrated
Steam Power-
Based on original
experiments from 1939-re-rebuild
Rocket using modern Technology Results:viable
fuel- abandoned
too soon

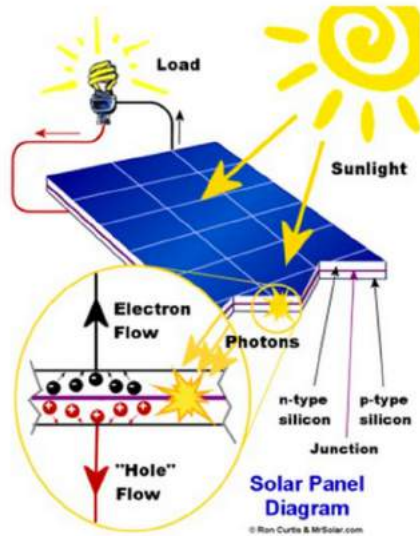
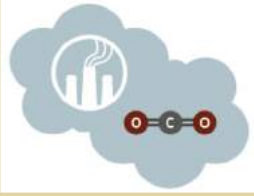


Roman Keller, "The Rocket for the Rest of Us" (still), 2010.



Photo: Luftwaffe Schweiz

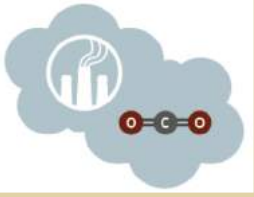
Solar Energy- Photovoltaics (solar cells)



MATTER AND ENERGY



**JOYCE HINTERDING- PLASMA STUDIES
AND SCIENTIST Rob Largent**

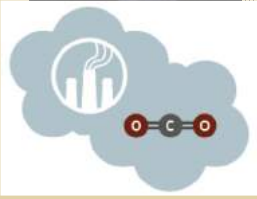


Yunchul Kim
Triaxial Pillars II and Argos by (KR)
Collaboration between COLLIDE
residency at
Cerna and FACT
(Foundation for Art and Creative Technology)

Creates uncanny experiences, which at times seem beyond belief, and challenge our understanding of the world as both analytic and embodied.

the artistic potential of fluid dynamics, metamaterials (photonic crystals) and especially on the context of magnetohydrodynamics.



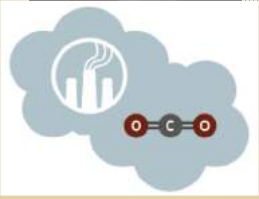


MATTER AND ENERGY

Particle Falls (2015 Andrea Polli) Pollution



Andrea Polli <https://vimeo.com/159202543>



MATTER AND ENERGY

Physics proves that taking averages is no any real index of what is really going on. Instead the challenge is to try to understand complexity. Behaviours that arise from situated interaction are much more important than analysis of individual atomic behaviour. Research is not only about knowing its about believing in the value of error, and being in the world and contextualizing your research.

Complexity: **SPECULATION, COMPLEXITY, MATTER AND ENERGY**

Artist,

Engagement.

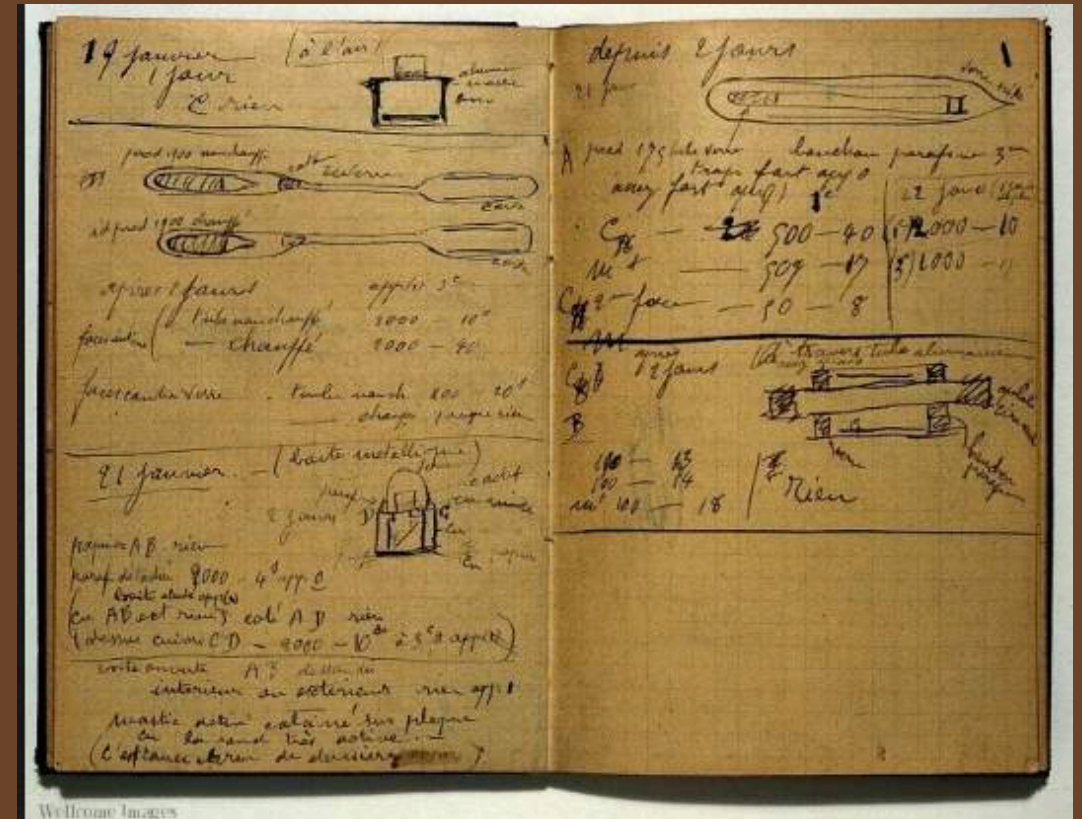
What can these artists bring to the understanding of complexity? Arthur woods greater earth. Sonification to understand.

Jayanne English-visualization help

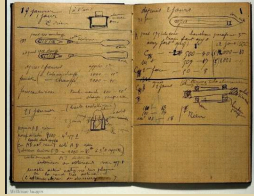
AIR POLLUTION, OCEAN QUALITY, ANIMALS WELFARE

“**Evolution** is no linear family tree, but change in the single multidimensional being that has grown to cover the entire surface of Earth.” Lynn Margulis

ENVIRONMENTAL SCIENCE AND ART



Wellcome Images



ENVIRONMENTAL SCIENCE AND ART

ENVIRONMENTAL SCIENCE AND ART

In environmental science the whole earth is giant incubator, one in which the humans are doing the warming! (BRUNO LATOUR 2012).

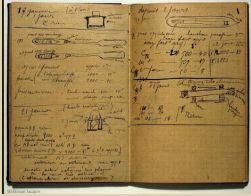
AIR POLLUTION, OCEAN QUALITY, ANIMAL WELFARE

Field Trips for artists, create tacit knowledge and social interactions in a given spatial environment where explicit knowledge is prioritized.

Example of Lateral thinking

Darwins note books

notes from others, comments, ideas, not only science notes



BIOLOGY AND BIOART

- eukaryotic cells, invaded by protobacteria and cyanobacteria evolved to become essential powerhouse components of any cell: the chloroplasts and mitochondria.



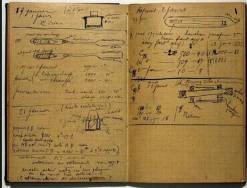
“Science is an international activity: One has to think sideways. There are no female role Models. In fact, science produces chauvinist dichotomies.”
Lynn Margulis (1982)



Margulis in 2005

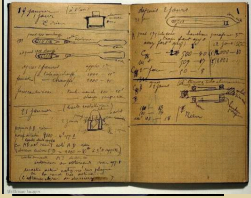
She debated with James Lovelock (ev. biologist). She married Carl Sagen, (physicist) and she socialized with social science writers

ENVIRONMENTAL SCIENCE AND ART



SCOTT -JELLYEYES

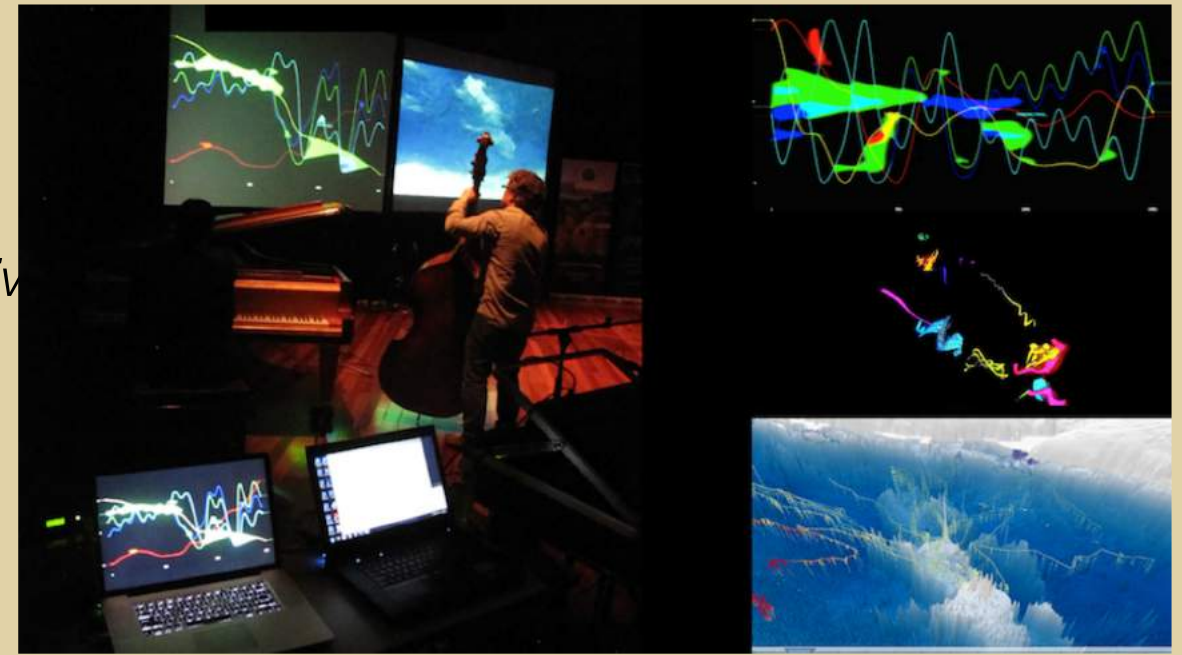


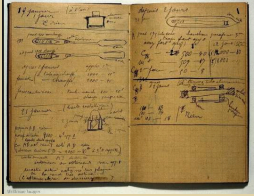


PHYSICS AND ART

•Sonification

- “Under the Icecap”*
- An Art & Science collaboration*
- Dr Nigel Helyer*
- SonicObjects; Sonic Architecture*
- &
- Dr Mary-Anne Lea*
- Ecology and Biodiversity Centre at the*
- Institute for Marine & Antarctic Studies at the Univ*
- Tasmania2011 ~ current Musicians*





SOCIAL SCIENCE AND ART Teamwork

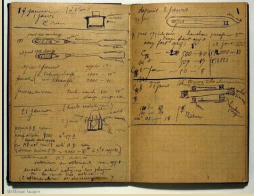
Artist Brandon Ballengee: Searches for Deformities in Amphibians
Participatory biology citizen science in the Yorkshire Project with Urban under-privileged groups
A collaboration with Environmental Scientist-Stanley K Sessions - Hartwick College USA.



Figure 51. Scan of cleared and stained Common toad collected from Havercroft, 25 June 2006. Complete missing hind limb and ischium. *Please note asymmetry of pelvic girdle.



Figure 4. Piedmont, Italy *Eco-Action* from 2010 Malamp IT studies. Photograph 2010 by Orietta Brombin.



SOCIAL SCIENCE AND ART Teamwork

Ecomedia

Ecoart Respond to the world around,
percieving environments as natural, social
or politized.

WOMANS ECO ARTS DIALOGUE

<https://directory.weadartists.org/results>

Raising awareness in the USA- appalling
pull out of the COP21 Agreements

<http://ecoartspace.blogspot.com>

Forming Groups

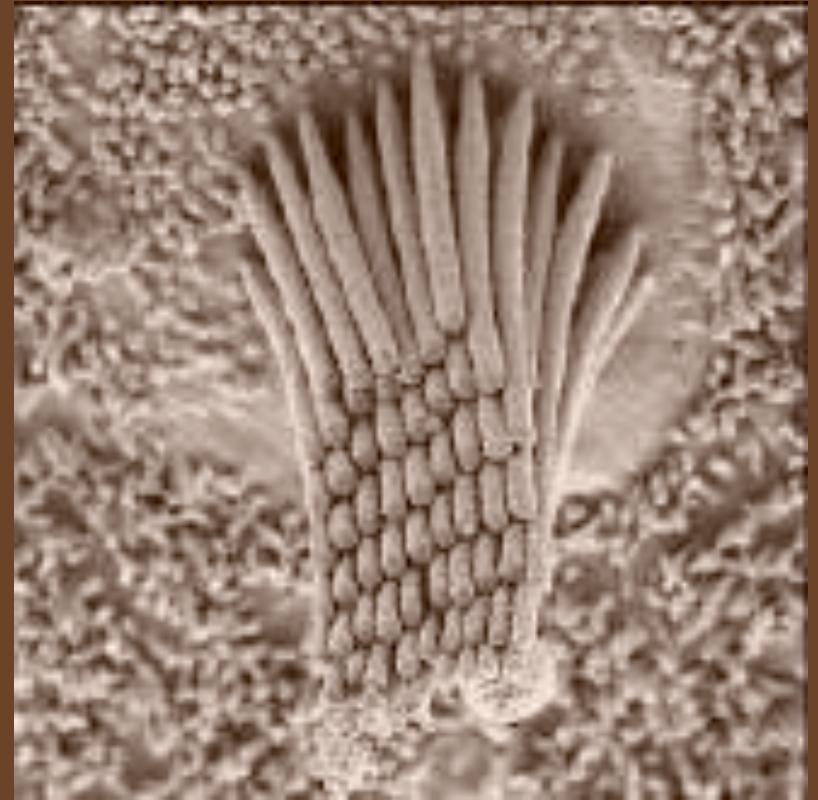
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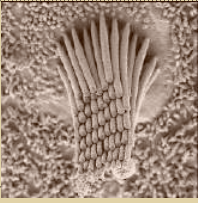
GROUP INCUBATORS TO PROMOTE COMMUNITY, TECHNOLOGY and DESIGN TO CONTEXT

SOCIAL SCIENCE and CITIZEN SCIENCE

Knowledge is situated. Women must infiltrate patriarchal domains, where social groups and boys clubs contribute to a distorted and partial account of nature's regularities and underlying causal tendencies
Harding (2004) The Science Question in Feminism

Teamwork -Incubation rather than innovation



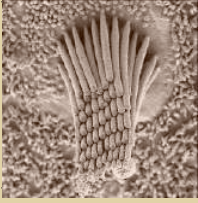


COMMUNITY, TECHNOLOGY and DESIGN TO CONTEXT

3. Incubator for the cultural commons: GROUP INCUBATORS

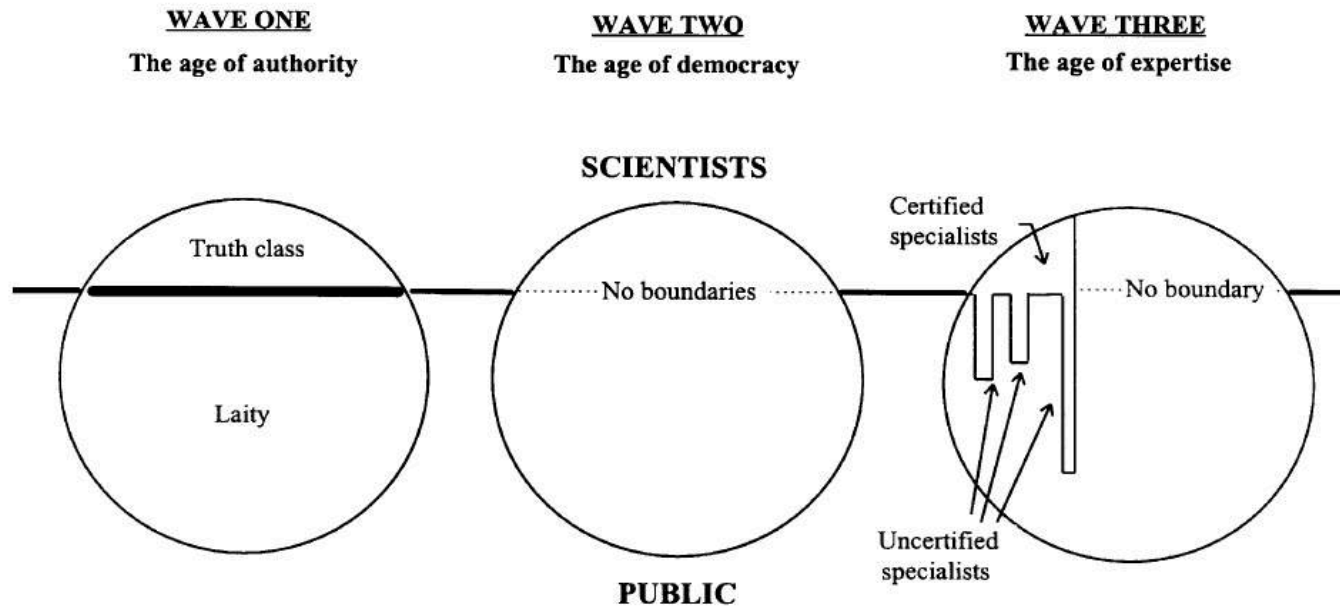
Knowledge for the community and special interest groups.

- 1, DIY-Hacking groups-Democratizing technology for community use.
2. Social Media- initiatives for knowhow transfer.
3. Expanding Educational Initiatives



SOCIAL SCIENCE AND ART

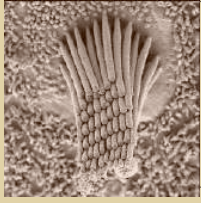
FIGURE 7
Three Waves of Science Studies



Wave 3 and Wave 1 differ epistemologically and politically.
Knowledge and truth are grounded in scientific procedures; expertise is most often grounded in experience.
Expertise extends into the public sphere whereas access to knowledge and truth is strictly bounded.

**IS THIS WHY
CITIZEN SCIENCE
HAS GAINED
MOMENTUM?**

*Fig 1. Collins and
Evens.
The Third Wave of
Science
Studies. Studies of
Expertise and
Experience, 2015*



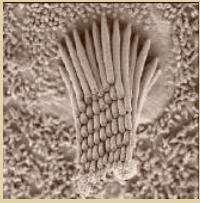
AWARENESS, VISUALIZATION, SCALE CONCLUSION

ARTS: Quote from WEAD.

SCIENCES:

We should always ask.. whose knowledge is being produced and for which peoples benefits and who is going to bear the costs and monitor which research is more important than other research? Sandra Harding

The **tragedy of the commons** is a term used in social science to describe a situation in a shared-resource system where individual users acting independently according to their own self-interest behave contrary to the common good of all users by depleting or spoiling that resource through collective action



•SOCIAL MEDIA PLATFORMS

Enabling Reciprocal
Voice:

Eugenio Tisselli-

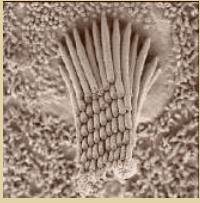
Angelika Hillbeck



- To create media art for farmers
- The community records, interacts and learns how to write into their own web platform-
- communication potentials 20 to 6,000 Users



- “Sauti ya wakulim“: in Tanzanian farming communities.
<http://sautiyawakulima.net/bagamoyo/about.php?l=1>



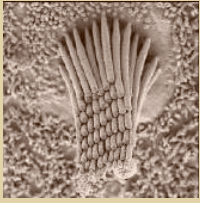
SOCIAL SCIENCE AND ART

- Collaborators: Department of Environmental Systems Science
- Professor Maria Rey. The Transdisciplinarity Lab (USYS TdLab)
- Juanita Schläpfer-Miller – *art as a non-conventional approaches* focused on emotion



Climate Hope Garden – Traces of the future

Cyanotypes, shadow images formed by UV light on photosensitive paper, Grounded Visions: ETHZ 2016. *Climate Garden 2085* was also on display in the swissnex Gallery, San Francisco
ALSO citizen science projects to increase the genetic diversity of wild plants in the city.

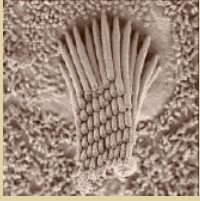


SOCIAL SCIENCE AND ART

Eskin for the
visually Impaired. Durban



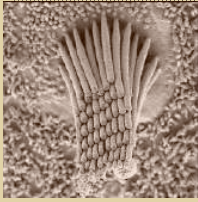
Zulus call Earth Mother Nomkhubulwane She is part human-parts animal. She can choose the physical state of any animal or human.



STAGE FOUR: Eskin 4 the Visually Impaired



- Help to not only regain these physical spaces of the unplanned, but to regain those urban spaces in the mind where Urban Ecology needs to be re-thought



DIY HACKING ACCESS

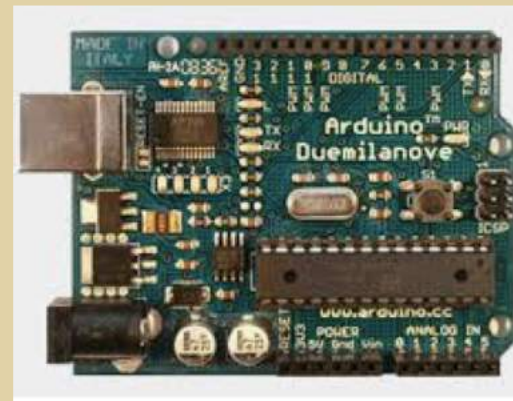
Bring your DIY mindset to our technology but update your credit card first!

<http://makezine.com>

Seeing is believing, and often the best way to learn how to do something is face to face.

Supports Sales- Arduino, Raspberry Pi, Beaglebone

-make a lot of cool nifty things with electronics



YES LAB
DONATE

BLOG

PROJECTS

- Fire Brigade Saafu
- Operation Success Thanks
- Reed Diversa
- Black Pete
- Polar Pals
- SaveCanada
- Report the Griev
- Monsanto in Mexico
- Bank Smokes Europe
- The Common App

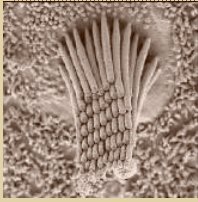
U.S. Chamber of Commerce Goes Green

REVEAL DATE: OCT 19 2009 STATUS: COMPLETE PARTNERS: AWAZ ACTION FACTORY

BREAKING 06/13/13 11:30am - Yes Men Win Legal Battle with U.S. Chamber of Commerce

The action that gave birth to the Yes Lab.

Shortly after launching a **battalion of Survivaballs** at the United Nations in the fall of 2009 to urge action against climate catastrophe, we heard from a group of activists in Washington, D.C., the **Awaaz Climate Action Factory**, who drew our attention to Public Enemy #1 of sane climate policy: the U.S. Chamber of Commerce.



DIY HACKING ACCESS

Quit being a consumer-
become a maker!
Learn for change

Fighting inequality by
being tech saavy.

Repair our own broken
stuff
empower women

What is good software
without a good community
Context.

DIY HACKING ACCESS FOR GROUPS-

- democratize
technology-Let others
be creative:

- Recycle and re-adapt
old technologies for
other uses

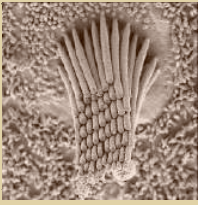
- Raise community
awareness about
ethical problems we
now face, by offering a
service



- Mz* Baltazar's
Lab
- VIENNA
- ELECTRONICS
AND COM
SCIENCE
EXPERTS and
NONEXPERTS



DESIGN TO CONTEXT EDUCATION

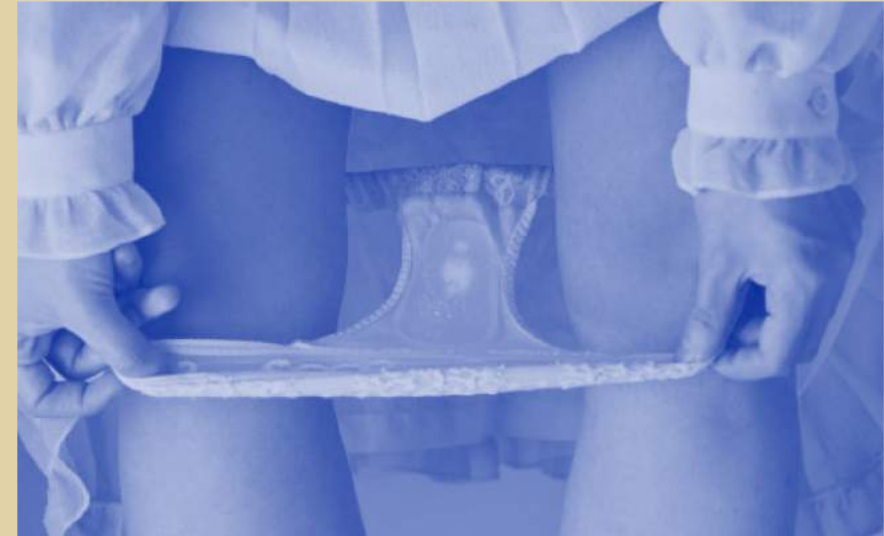


Designing for a eco process rather than a product – like bottom up design in alignment with nature (bio-inspired design-DNA informed design)

DESIGN –Material Masters Program at Central St. Martins. Grad Student won a SPECS EU Prize

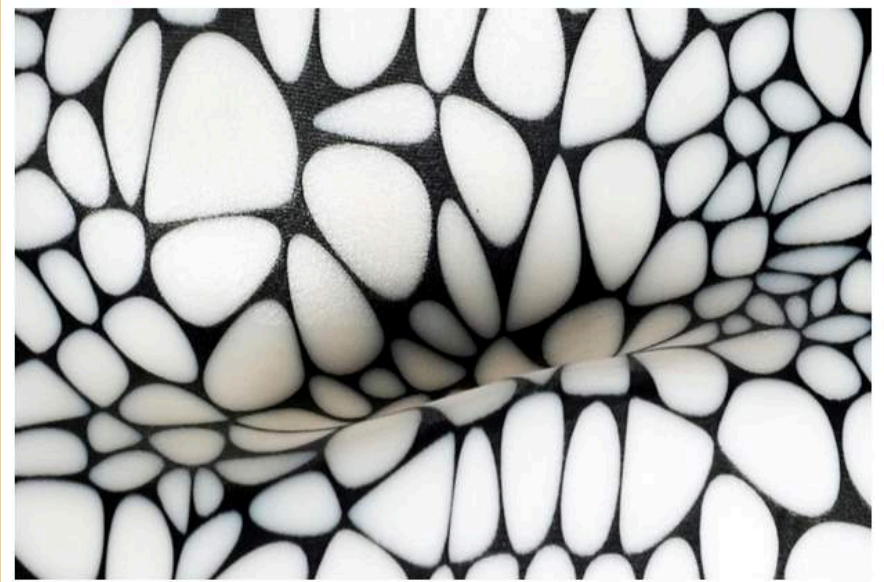
EXAMPLE: Giulia Tomasello: Future Flora

Projects that aim to explore alternative sustainable futures informed by permaculture or synthetic biology.



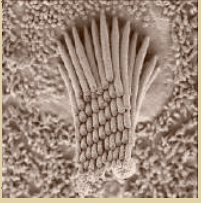
Design MIT MEDIA LAB

- Build products that can be adapted to various environments
- Create new materials and uses for them
- imbed materials with circuit software
- EXAMPLE-Material Ecology - *Neri Oxmen*-
- Monocoque: a technique that supports structural load with object's external skin



CONCLUSION

**Creative Incubators for a common
Culture**



SHARING PARTICULAR THEMES LIKE THESE IN
THE CREATIVE INCUBATOR with
COMMONIZES THE CULTURE-

Democratizes the complexity
Is necessary for our survival

To turning art and science into common culture requires
imagination. We are sick of the dualisms- lets incubate the real
issues not the disciplines and open up the discourses with experts
and non experts to the public.



CONCLUSION

New definitions for Creative Incubators for these
Sharing common themes creates a common culture.

THEMES

- 1. The Growth of Life and the study of Behaviour
Examples from Biologists and bio-artists –Neuroscientists and Neuromedia artists**
- 2. The Understanding Matter and Energy, Physicists and Artists**
- 3. The monitoring Air Pollution, Ocean Quality and Animal welfare
Environmental Scientists and Artists**
- 4. The promotion of community engagement, access to technology or design-to-
context. Social Science and Citizen science-**



CONCLUSION TEAMWORK

The creative incubator

a space of mutual understanding for discussion and practice of not just new inventions and discoveries, but those matters which are unformed and in-process, difficult to describe even in the language of one's "home" discipline.

Encouraging the art/sci community: join a "commons network" where we can re-design representations of the "artificial" and collaborate on new "wet" experiments that explore how our sensory processes can cope with this complexity

For artists the challenge is to find poetic metaphors, analogies or other resonant imageries that can be abstracted from scientific evidence and applied to pressing social issues. Cultural constructivists assert that knowledge and reality are products of cultural contexts and change accordingly, but I argue for the potential of art research to become "useful": In other words, to become more scientific. Both artists and scientists are likely to emerge stronger from it!



CONCLUSION

CRITICAL AND LATERAL PROCESSES OF THINKING ARE FOSTERED BY THEMATIC DISCOURSES WITH TRANSDISCIPLINARY TEAMS

Many contemporary artists of the past quarter century collaborate with others and contextualize their research with the hands-on experience and input of varied publics and researchers from diverse disciplines.

- Conclusion: These are new roles for artists, who want to work directly with scientists or social scientists to formulate new approaches and hybrid methodologies.
- I believe that art-science incubators can provide an ideal environment for expanding the boundaries and discourses of the traditional disciplines.
- **ART PROCESS:** Changes in art production tend to be catalysed by artists but scientist should join the creative commons too



COMMON CULTURAL INCUBATION

**THEMATIC DISCOURSES :Salotto Cafe
LASERZURICH SALON: 2016-18 www.laserzurich.com**

Reclaiming Urban Ecology

Transfer or Interpretation- Climate Change Research

Space Time Art

IT Agroecology: sharing knowledge

Times of waste: How to deal with the leftovers?

IoT and Urban Technologies

Biofeedback in virtual space visualization

[Science as Game - Art as Play](#)

Complexity: from particle physics to musical interfaces

[Mental Imagery and Embodiment in the Sonic Arts](#)

[GMOs: Threats, impacts and sustainable futures](#)

Biohacking or Ecohacking?

The Afterlife of Minerals

Artistic Inspirations: Robotics and Artificial Life





The value of sharing experiments.

To build up our relationship with the natural world

share the processes of exhibit building with the public, would help the public to understand other fields of practice besides our own

Build experiments that have the potential to be immersive experiences with different layers of meaning

Bring our processes, aesthetics and content to “outsiders”, for their feedback

Generate unique outcomes and new approaches to the material culture

Co-publish our processes and outcomes of creativity-that feature the value of lateral and critical thinking



THANK YOU

KEYWORDS : TEAMWORK,
TRANSDISCIPLINARY RESEARCH
LATERAL AND CRITICAL THINKING
OPEN MINDED LABS FOR EXPERIMENTATION

More Information:

www.jillscott.org

(1975- Artworks, installations about the body, body politics, ethics and cellular research)

www.artistsinlabs.ch

(2003-Placing Artists, designers etc, into Science Labs)

www.z-node.net

(2003-2016) The PhD Program- ZHdK and the University of Plymouth UK)