Engendering eco-connectedness in design practice through diffractive engagement in place.

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Film EU Doctoral Summer Seminar - 2023

Institute of Art, Design + Technology Dún Laoghaire

- Introduction
- Rationale
- Theoretical Framework
- Methodology + Design approach
- Sensory Mapping Tool + Tests 2022/23
- Insights
- Timeline/Next Steps



Institute of Art, Design + Technology Dún Laoghaire

MA Design for Change

























WHAT AM I DOING?

Design PhD
NCAD
Part-time
Research through practice
Year 4 of 5 (or maybe 6?)
Ecological Design - Post-anthropocentric design



RATIONALE

Amazon forest 2019

Nova Bandeirantes - August 19, 2019 - 11:47 AM



Westmeath– Ireland 2018

Offaly, Ireland 2023

+ had

414 8.

The environmental crisis is a design crisis. It is a consequence of how things are made...[Yet] design manifests culture and culture rests firmly on the foundation of what we believe to be true about the world

Van der Ryn and Cowan 1996, p.6

... unsustainability springs from the cultural structure of modernity itself.

John Ehrenfeld 2009

Ehrenfeld, John. Sustainability by Design: A Subversive Strategy for Transforming Our Consumer Culture. New Haven, Conn: Yale University Press, 2009. Print

our map of reality is a poor reflection of reality itself, most of us are governed by an epistemology we know to be wrong

Gregory Bateson 1978

Intergovernmental Science-Policy Platform on Biodiversity



ADVANCE UNEDITED VERSION

Summary for policymakers of the methodological assessment regarding the diverse conceptualization of multiple values of nature and its benefits, including biodiversity and ecosystem functions and services (assessment of the diverse values and valuation of nature)

-ADVANCE UNEDITED VERSION-

8 July 2022

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Disclaimer

The designations employed and the presentation of material on the maps used in the present report do not imply the expression of any opinion whatsoever on the part of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. These maps have been prepared for the sole purpose of facilitating the assessment of the broad biogeographical areas.



WE ARE HERE





What Design is Trying to Do...



https://biomimicry.org/learning-nature-designing-nature-regenerative-cultures-create-conditions-conducive-life/

...and why it's not working

Our present anthropocentric desires, expressed in imperialist language, submit our planet to neo colonizing attitudes, anthropocentric values, welfare abuses of non-humans, industrial exploitation and highly impartial interpretations of events.

Having upheld this worldview for the last 300 years, we must now ask how we can repurpose the tools of modernity against the terrors of Progress to make visible the other worlds it has ignored and damaged

Tsing et all, 2017

Hughes, Rolf, and Rachel Armstrong. *The Art of Experiment: Post-pandemic Knowledge Practices for 21st Century Architecture and Design.*, 2021. Print.

Epistemological Error

...a way of knowing that is a legacy of the western philosophical tradition. It determines that we generally do not perceive systemic interconnections and are thereby unable to deal with complexity presented by the converging ecological social and economic crises

Joanna Boehnert (2018, pg 68)

Boehnert, Joanna. Design, Ecology, Politics: Towards the Ecocene. 2018. Bloomsbury, London.

Epistemological Fallacies

- 1. That mind and nature are independent of each other
- 2. That humans are separate from the rest of the natural world
- 3. That this separation creates a natural and necessary competition
- 4. That humans must strive to dominate each other and non-human nature
- 5. That instrumental approaches to knowledge can describe an objective truth, and
- 6. That the nonhuman natural world has no agency of its own

Boehnert, Joanna. Design, Ecology, Politics: Towards the Ecocene. 2018. Bloomsbury, London.

(the ecological crisis') ... are just different facets of one single crisis, which is largely a crisis of perception

David Orr 2004

What do we need?



Anthropocentric

Biocentric Ecocentric Lifecentric Planetcentric

Ecological Epistemologies and Ontologies

Ecological epistemologies are under girthed by the awareness of ecological embeddedness and the subsequent revision of knowledge systems to reflect this awareness.

Ecological ontology refers to our actual constitutive embeddedness within and as part of larger ecological systems.

Ethico-onto-epistem-ology

knowing is a material practice of engagement as part of the world in it's differential becoming

Boehnert, Joanna. Design, Ecology, Politics: Towards the Ecocene. 2018. Bloomsbury, London.



...a new tool set of knowledge instruments that enable people to make the world livable again through negotiated partnerships with non-human agents *Huges and Armstrong*

...to create the conditions for new thoughts

Marilyn Strathern

Hughes, Rolf, and Rachel Armstrong. *The Art of Experiment: Post-pandemic Knowledge Practices for 21st Century Architecture and Design.*, 2021. Print.

Kohn, Eduardo. How Forests Think: Toward an Anthropology Beyond the Human., 2015. Print.



Preceptor Tools - Clyde Doyle - 2015

THEORETICAL FRAMEWORK

METHODOLOGY

- Place based research
- Eco literacy/ Experiential Learning
- Wild Pedagogy
- Critical Geography
- Critical Design Theory
- New materialism (Agential Realism)
- Diffractive Methodology

Agential Realism

Reality is composed not of things in-themselves or things-behind-phenomena but of *things-in-phenomena*

...the entanglements of bodies is not an interaction of pre-existing entities but the formation of phenomena and subjectivities, this is the process of intra-action.

Intra-action

"..."intra-action" signifies the mutual constitution of entangled agencies. That is, in contrast to the usual "interaction," which assumes that there are separate individual agencies that precede their interaction, the notion of intra-action recognizes that distinct agencies do not precede, but rather emerge through, their intra-action. " (pg.33)

Diffraction is a mapping of interference, not of replication, reflection, or reproduction.

Barad, Karen. "Posthumanist Performativity: Toward an Understanding of How Matter Comes to Matter." *Signs*, vol. 28, no. 3, 2003, pp. 801–31, https://doi.org/10.1086/345321. Accessed 8 May 2022.



Double slit experiment

Diffractive Methodology

"Crucially, agency is a matter of intra-acting; it is an enactment, not something that someone or something has. Agency is doing/being in its intra-activity."

Intra-action understands agency as not an inherent property of an individual or human to be exercised, but as a dynamism of forces in which all designated 'things' are constantly exchanging and diffracting, influencing, and working inseparably.

Diffractive Methodology

| Diffraction | Reflection |
|--|---|
| differences emerge within phenomena agential separability real material differences but without absolute separation | inside/ outside absolute separation no difference interior/exterior |
| diffraction/difference pattern intra-acting entangled states of nature cultures | words mirror things social / natural binary nature / culture binary |
| about making a difference in the world about taking responsibility for the fact that our practices matter; the world is materialized differently through different practices (contingent ontology) | about representations about finding accurate representations about the gaze from afar |

Barad on Language

Language has been granted too much power. The linguistic turn, the semiotic turn, the interpretative turn, the cultural turn: it seems that at every turn lately every "thing"—even materiality— is turned into a matter of language or some other form of cultural representation.

A *performative* understanding of discursive practices challenges the representationalist belief in the power of words to represent pre-existing things.

THIS INFORMS MY **DESIGN STANCE** PERFORMATIVE (non-representational) **NON-VERBAL** RELATIONAL EMBODIED BIOREGIONAL ETHIC-ONTO-EPISTEM-LOGICAL

Workshops 2022
Sensory Mapping

Agential - cuts CCA Derry 2015

Aisling O'Donnell, Sarah Browne, Between a Dog and a Wolf: An Animal Empathy Workbook, CCA Derry/Londonderry 2015

















Map of You – initial design and testing 2022

• Identify a place

. . .

- Record and map
- Identify phenomena
- Create "legend" (visual language) of your senses
- Re-map space using this non-verbal language

WARSAW ᅌ Filharmonia Na

GIOUUDƏ

Zajezdnia Tramwajów Warszawskich Wola

CZYSTE.

arkipieci Siost

XPO XXI

Muzeum Powstania Warszawskiego

OLD OCHOTA

Warsaw – Oct 2022

Polish-Japanese Academy of Information Technology

w Warszawie

FILTRY_

Stacja Muzeum

Radisson Blu Sobieski

Polsko-Japońska Akademia Technik...

ŚRÓDMIEŚC POLUDNIOW WARSAW

Bułkę

UKI ⊎K

Politechnika Warszawska

Place based research







Initial Mapping







Indirect

Direct

S

Animals

Runners

Children

Urbanisation

Non-human Actants

Clouds

Sun

Rain

Human actants

Legend – new visual /sensory language



Sasha Shevshuk

Namir Strzelecki



Alina Kaverzina

Re-mapping



Anastasia Mashkina



Kristina Maskalan



Viktor Bolgka



Sasha Shevshuk

Outcomes























Insights

- Structure was critical but required more flexibility
- The extended period contributed to more successful engagement in place
- Creating the legend was a challenge
- Outcomes were more meaningful

KRAVÍ HORA

upaliště Kraví hora, ortovní a rekreační.

CONFERENCE AIMS TO DISCUSS METHODOLOGICAL ASPECTS OF NON-HUMAN. NORE-THAN-HUMAN AND OTHER OTHERS FROM INTERDISCIPLINARY PERSPECTIVES. NOTING THE RESEARCH AND PRACTICES TO CURRENT SOCIO-ECONOMICAL CONTEXTS, TACKLING THE WICKED PROBLEMS OF YESTERDAY, TODAY, AND

ENCOUNTERING NON-HUMANS

ON METHODOLOGIES FOR THE POST-ANTHROPOCENE

26-27 NOVEMBER 2022 Faculty of Arts Mu, Brno

CONFERENCE, WORKSHOPS

MUNI.CZ/GO/NONHUMANS_REGISTER MUNI.CZ/GO/NONHUMANS_WEBSITE



MUNI Department of Information

USIGNIIY NGLEUIGIIII chrám sv. Václava

Brno– Nov 2022

Masarykova univerzita

Albert Supermarket - Brno Veveří

ιθαμοιοθλ Hotel Continental Brno Filozofická fakulta LOLUI JO AWODEDY OSOUBCE -USI Masarykovy univerzity

NdB: Janáčkovo

Kostel sv. Jakuba

Diffractive Mapping Workshop

- iterate on tool and process
- test with peers (non-students)
- Focus on outcomes for it's own sake







Map of You Brno 2022 - Legends





















Survey Feedback

"It helped me attune to other beings around me in a given place and moment"

"movement is an important part of perception of space and relationality"

"While I felt connected to my world in that temporal scale was shifting





Summer 23

- Rewrite literature review
- Final workshop iteration and test (Design West Inisheer, Galway)
- Develop (actually return to) material engagements in place



THANK YOU QUESTIONS?