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Design’s Boundary Conditions in Relation to Environmental Interactions GIGA-map

Systemic Approach to Architectural Performance and Wood as a Primary Medium to Architectural Performance project Marie Davidová

This GIGA-map developed as a ZIP-analysis of GIGA-mapping Workshop lead by Birger Sevaldson that was mapping pavilions from the project Wood as a Primary Medium to Architectural Performance. It is mapping a problem of different types of environmental, biological as well as physical, interactions through a range of boundary conditions of different designs. The case designs were either authored or co-authored by the GIGA-map’s author and were selected due to their suitability to the not fully strict ‘gradient’.

The map lays out a matrix of parameters and relating their interactions that often generate more or less complex feedback loops, some of them cycling even in hierarchical constellations. The stroke thickness doesn’t fully reflect the hierarchy in the system but the importance of related interactions. The gradient of the splines represents the boundary crossings, while the colour gradient of lines and texts for each project represent a range from design’s openness to closeness of the boundary.



To Reflect Transitions - Memorial Site in Norway for The Victims of The Tsunami Disaster Dec 26th 2004 (Marie Davidová, Erik Stenman and Pavel Žilovský 2006)

InstantPARK City Intervention for festival urbanACT (workshop tutors: Marie Davidová and Křitof Hančík (Coll Coll) with Martin Schman and Boris Melus (Oximoron); students: Jitka Čechová, Petra Fikarová, Marie Moravská, Zuzana Pavlová, Pavel Mahdal, Libor Mládek, Adam de Pina and Eduard Seibert 2012)

Landscape for Energy Exhibition in Nordborg (ExpoLogy, Marie Davidová, colour selection Siv Mannsäter & Marie Davidová 2009)

Mood for Wood: Community Origami Furniture (workshop tutors: Marie Davidová, Šimon Prokop; students: Pulina Baldak, Donatella Buglioni, Monika Glowacka, Anil Ghimil, Shanka Rajak, Wojtek Kozłowski, Łucja Kubiś, Martyna Rajewska, Simona Tóthová, Agnieszka Turczyńska 2015)

Baloon Dome: Pavilion for Living City Festival (Coll Coll: Martin Gaberle, Marie Davidová, Libor Mládek, Lucie Roubalová 2012)

LOOP: The Environmental Summer Pavilion II for EnvirCity Festival (studio course tutors: Marie Davidová, Šimon Prokop; Martin Kloda; students: Alena Novotná, Anna Hrušková, Antonín Hůla, Barbora Sládková, Jakub Kopecký, Jiří Fábek, Jiří Polovrta, Petr Tuma, Tereza Jilková, Štěpán Škvrta, Eliška Antošová, Tereza Lisková, Filip Janata, Tomáš Kytko, Marie Kortávková, Vojtěch Holcěk, Martin Vaníček, Jakub Hlaváček and Petr Hovella 2014)

HOUDSLO - The penetrating of latent (Marie Davidová 2007)

AEROPORT 2011 (Coll Coll: Marie Davidová, Křitof Hančík in cooperation with graphic studio Skuta Design: Jan Skuta 2011)

Pil Veit - Proposal for a museum complex in Sunnfjord - Norway (Coll Coll: Marie Davidová, Křitof Hančík, Martin Prokeš in cooperation with Matěj Hošek, Jan Zemlička, Jaroslav Felc & Carl Nilsson-Love 2011)

BARCODE B10.1 - Façade Concept Development (Sketches AS: Morten Ludviksen, Marie Davidová, Thomas Fagernes 2007)

SpiralTreehouse (Marie Davidová & Prokop Závada 2010-2013)

- environment - design responsive
- environment - material responsive
 - physical environmental conditions
 - relative humidity responsive
 - temperature responsive
 - air flow responsive
 - light responsive
 - sound responsive
 - radio waves responsive
 - biological environment conditions
 - symbiotic with flora
 - platform for fauna - means non-anthropoc context
 - human - design responsive
- design - environment responsive
- material - environment responsive
 - physical environmental conditions
 - relative humidity effect
 - temperature effect
 - air flow effect
 - light effect
 - sound effect
 - radio waves effect
 - biological environment conditions
 - social interaction
 - individualistic interaction
 - meditation
 - leisure
 - sleeping
 - work
 - meeting point
 - communication
 - material loading
 - material storing
- social boundary conditions
 - public
 - public-private
 - private
 - opportunistic use
 - installation
 - furniture
 - shelter
 - screen
 - parasite
 - movable

