

IN SILICO DESIGN

DESIGN AND ITERATE

ECOLE SPECIALE D'ARCHITECTURE

Vendredi 15 Avril - 18h30 - Amphi Cinema

CONFERENCE:

Silvan Oesterle, ETH - 18H30



ROK, Installation at the 5M3 exhibition space in Basel

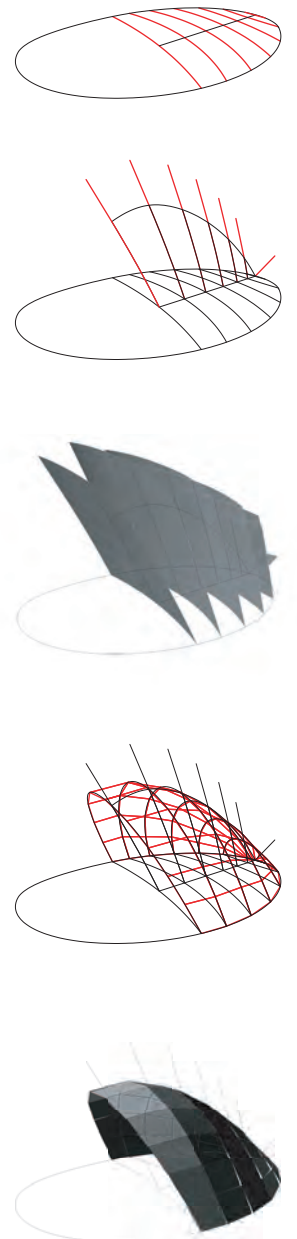
Silvan Oesterle is a founding partner of ROK – Rippmann Oesterle Knauss, established in 2010. He studied architecture at the ETH Zurich where he earned a Master of Science in Architecture in 2007. During his studies he worked as a designer for UNStudio (Amsterdam, 2007), Gramazio & Kohler (Zürich, 2006) and Riarch (New York, 2004). On graduation he joined the Faculty of Architecture at ETH Zurich where he works at the chair for Architecture and Digital Fabrication. Silvan Oesterle has given lectures at various schools, conferences and offices amongst which are the Architectural Association School of Architecture (London), UIC ESARQ School of Architecture (Barcelona), CITA (Copenhagen), the Smart Geometry Conference (Munich), ACADIA2009 (Chicago).

INAUGURATION:

Dome Pavillion ESA-EPFL 20H

The Digital age in architecture reached a point of maturity where a quick and seamless transition drives the relation between design and fabrication. Indeed the digital chain, i.e. the continuous transition between the different development scales of the project has gotten tighter and tighter. The complexity resulting of the non standard architecture has been fully absorbed by the technological means; the direct translation of the designed shapes into G code (the fabrication files) ensures the exact transcription of a generative but controlled shape into a fully computed non standard geometry assembly.

This dome has to be understood as the demonstration of this consistent workflow setup between design and fabrication. The designer has gone through quick design iterations for five days, constantly proving his design intent through fabrication models replicating the connection details driven by the project constraints. The result is a self standing dome built as an assembly of fifty sheets of hand folded aluminum sheets (1mX1m) cut over a week-end workshop.



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"In silico is an expression used to mean "performed on computer or via computer simulation." The phrase was coined as an analogy to the Latin phrases in vivo and in vitro which are commonly used in biology and refer to experiments done in living organisms and outside of living organisms, respectively."

D'après "In Silico Research", Center of Excellence in generative medicine, University of Bridgeport.

In Silico Design, "SK13", Pavillion, Lausanne.



<http://insilicodesign.wordpress.com/>