HUMBOLDT-UNIVERSITÄT ZU BERLIN

Image

Knowledge

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An Interdisciplinary Laboratory

Science of Structures and 3-D Code

Funded by

Organisation

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Please register in advance at michael. friedman@hu-berlin.de

www.interdisciplinary-laboratory.hu-berlin.de

Directions

 Bhf. Hackescher Markt
 S-Bhf. Oranienburger Straße

 □ S5 S7 S75
 □ S1 S2 S25

 □ Tram M1 M4 M5 12
 U-Bhf. Weinmeisterstraße

 □ U8



Workshop, 26 March 2015 Sophienstr. 22a, 10178 Berlin

THE FOLD IN SCIENCES, ART AND DESIGN

picture: from the book »Geometric exercises in paper Folding«, Sundara Row, 1917

About the Workshop

The group *Science of Structures and* 3-*D Code* will hold a one-day long workshop on the subject of the *Fold* on the 26th of March. The workshop is intended for all the participants of the project, as well as for other members of the Cluster of Excellence *Image Knowledge Gestaltung* and will take at Sophienstr. 22a in Mitte (second floor, rear building).

The *fold* might be thought of as a 1-dimensional code, inscribed on a 2-dimensional surface, which gives rise to a 3-dimensional event. However, different disciplines have different understanding of what a *fold* is, and hence the main focus of the workshop will be to formulate a coherent and clear notion of it in all the areas, which participate in the project. Lectures from all the fields of research will be held, including physics, bio-materials, biology, mathematics, architecture, design, history of science and philosophy. Every lecture will be 30 minutes long, accompanied by a 30 minutes discussion, in order to understand the differences and the affinities between the different concepts and actions that are enfolded within the Fold, such as: Bend, Corrugation, Crease, Twist etc.

A (preliminary) program can be found below. As always, every member of the group is welcome to present further lectures and contributions. The workshop will be a base for a Sammelband – a collection of papers dealing with *Fold* concept from different angles, planned to be published in 2016. We hope that all members of the group will be able to contribute to it.



Program

10.00	Opening lecture Wolfgang Schäffner
PART 1	Moderation: Sandra Schramke
10.30	Fold and folding in lightweight structures Joachim Krausse
11.00	Origami: a brief introduction to the history of paper folding
	Matthias Wiebel
11.30	Discussion
12.00	COFFEE BREAK
PART 2	Moderation: Samo Tomšič
12.15	In the labyrinth of the fold: Leibniz und Deleuze Angelika Seppi
12.45	The fold: philosophical and mathematical framework with
	some »applications« Jochen Brüning
13.15	Discussion
13.45	LUNCH BREAK
PART 3	Moderation: Karin Krauthausen
15.00	Protein folding Thomas Weikl
15.30	Folding in biomaterials research Lorenzo Guiducci
16.00	Discussion
16.30	COFFEE BREAK
PART 4	Moderation: Karin Krauthausen
17.00	Folding and wrinkling of a one atom thick sheet of
	graphene oxide Fardin Gholami

17.30-18.30 Closing discussion Wolfgang Schäffner