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WWW.CONCRETEDESIGNCOMPETITION.COM



CONCRETE

DESIGN COMPETITION
TACTILITY 2017/2018

WWW.CONCRETEDESIGNCOMPETITION.COM

THE CONCRETE DESIGN COMPETITION

The International Concrete Design Competition for Students is a biennial ideas and design competition for students in architecture, engineering, design and affiliated disciplines. It is organized and funded by a consortium of European cement and concrete associations and open for students registered in an educational institute in one of the participating countries.

The International Concrete Design Competition for Students aims at promoting innovative design attitudes related to the use of concrete as a material and a technology. It is characterized by its format: each competition cycle is framed by a theme designating a specific property of concrete. Nationally chosen laureates are invited to participate in an international master class. This master class continues the investigation of the theme.

The International Concrete Design Competition for Students is material based. It focuses design attitudes towards material as a design-leading phenomenon. It does not prescribe 'traditional' design requirements like programme, location or typology. It asks participants to explore and exploit the potential of the material in a design-led environment. They are invited to approach the material from within its own merits and to push its potential to 'realise' developed ideas. It asks to present these ideas through design proposals. Ideas can only show their merits when they are applied. The choice of a design topic or programme is free. It should be chosen such that it presents the participant's ideas as accurately as possible and can range from building details to large structures, landscape projects or building complexes.

The International Concrete Design Competition for Students is 'open' for adaptations. It's character offers a platform for material research and design that can either be approached individually as a complete assignment or it can be incorporated within 'host' design and research assignments and thus becoming part of existing curricula.

The International Concrete Design Competition for Students is an initiative by a collaboration of European cement and concrete associations. Their aim is to promote innovative design attitudes related to concrete. They recognise that the use of concrete as an architectural medium shows room for improvements and development. They see the material not only as a means to 'solve' formal design ambitions. Material research and understanding will lead to innovative design and create possibilities for architects, designers and engineers to surpass existing limitations and visions.



The International Concrete Design Competition for Students also recognises the abundant energy, enthousiasm and potential of those studying architecture, engineering and design, the future professionals that will work with concrete. The cement and concrete associations are convinced this competition offers additional expertise alongside the regular education on materials students receive. In order to learn about and understand a material one has to experience and explore its properties, preferably in a design-led environment. This competition including its master class for laureates offers a unique opportunity to be part of future developments and to immerse oneself in conditions where materials are at the core of developments and design.

TACTILITY

Concrete is often perceived as gray, dull and cheap. Indeed it is the most used construction material in the world and thus can be found in many places and applications where economics, speed, and simple and safe constructions are crucial. Nonetheless, concrete is also widely deployed to express specific architectural and aesthetic desires. Concrete's nature of seamlessly copying the formwork in which it is made - in terms of shape and texture -, makes it an ideal material to create many different expressions. Varying from raw and rough 'beton brute', to sleek and slender high-performance structures and ultra-dense maintenance-free surfaces. Concrete provides designers with endless possibilities to create slightly varying repetitions with pre-cast façade elements, truly three dimensional spatially complex building components, and as many surface treatments and textures one can imagine.

Tactility may be viewed as one of architecture's main languages. We all recognize craftsmanship and beauty in cleverly detailed and exquisitely executed pieces of architecture. From sensual wall textures in the works of Ando and Chipperfield, to sturdy and revealing structures of Zumthor and Olgiati. The material, and especially the way it presents itself, might be as important as the work's sculptural and functional presence. In the best examples, these 'come together' and reinforce each other. Material gives meaning to the work and the way it is perceived. When architecture is described as our third skin, tactility should be one of our first areas of attention. Material is where architecture meets our bodies, where the building interacts with our senses.

The 8th Concrete Design Competition on TACTILITY asks students of architecture, design and engineering to explore and exploit the potential of concrete's properties with respect to any notion of TACTILITY. These can be related to inherent material properties, concrete's production process, and its application in new or existing structures. They may address aesthetic desires, structural systems or fabrication methods and comment on economic realities, sustainability demands or social issues.

This competition does not prescribe a specific location or program; participants can choose a context of their own that supports their fascinations and ambitions and that fits an acute presentation of their ideas. Proposals may range from objects, furniture and architectural details, to housing, landscape interventions, complex buildings, infrastructure and structural systems. Competition entries need to address technical and functional aspects as well as formal and programmatic ones – ideas need to be tested through design proposals to convincingly demonstrate their potential. They will be reviewed

on the combination of inventiveness in addressing the competition's theme and architectural implications.

The 8th Concrete Design Competition – TACTILITY runs in three European countries during the academic year 2017 - 2018. National laureates will be invited to participate in a weeklong international workshop facilitated by the industry featuring renowned lecturers, experts and critics, further exploring concrete and tactility.

OXFORD DICTIONARY OF ENGLISH

tactile; of or connected with the senses of touch; perceptible by touch or apparently so: tangible; designed to be perceived by touch; given to touching others, especially as an unselfconscious expression of sympathy or affection

THE AMERICAN HERITAGE DICTIONARY OF THE ENGLISH LANGUAGE

tac•tile 1.a. Perecceptible to the sense of topuch; tangible. b. Characterized by or conveyeing an illusion of tangibility. 2. Used for feeling. 3. Of, relating to, or proceeding from the sense of touch; tactual.









SOME REFERENCES ON TACTILITY















Akka Art Gallery Osaka, Japan, 1988 Tadao Ando Architect & Associates

> American Cement Building Los Angeles, USA, 1964 DMJM Architects

Art Foundation Sachsen Anhalt Halle, Germany, 2012 AHM Architekten with G.tecz

> Atelier Bardill Scharans, Switzerland, 2007 Valerio Olgiati

Atlantic Wall Bray-Dunes, Dunkerque, France, 1944

> Bunker 599 Culemborg, Netherlands, 2010 RAAAF

Caltrans District 7 Headquarters Los Angeles, USA, 2004 Morphosis

Climbing Wall Spaarnwoude, Netherlands, 1992 Frans de Wit

Fürstenwald Cemetery Chur, Switzerland, 1996 Urs Zinsli & Kienst Vogt

Das Gelbe Haus Flims, Switzerland, 1999 Valerio Olgiati

Haus 36 Stuttgart, Germany, 2015 Matthias Bauer Associates Stuttgart

Kantine Berlin, Germany, 2013 David Chipperfield Architects























Kunsthaus Bregenz Bregenz, Austria, 1997 Peter Zumthor

Kunstmuseum Liechtenstein Vaduz, Liechtenstein, 2000 Morger & Degelo, with Christian Kerez

> Mercedes-Benz Museum Stuttgart, Germany, 2006 UNStudio

> > MuCEM Marseille, France, 2013 Rudy Ricciotti

National Park Centre Zernez, Switzerland, 2008 Valerio Olgiati

Neues Museum Berlin, Germany, 2009 David Chipperfield Architects

Utrecht, Netherlands, 2004 Wiel Arets Architects

Querini Stampalia Foundation Venice, Italy, 1963 Carlo Scarpa

Radix Wageningen, Netherlands, 2009 DP6

St. Antonius Church Basel, Switzerland, 1927 Karl Moser

Swiss Re Rüschlikon, Switzerland, 2002 Meili Peter Architekten

Unité d'Habitation - Cité Radieuse Marseille, France, 1952 Le Corbusier















INFO & CONTACT



BELGIAN NATIONAL SECRETARIAT

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CMI - Cement Manufacturers Ireland

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INTERNATIONAL COORDINATOR

bureaubakker

Siebe Bakker mail@bureaubakker.com











RULES



1 PARTICIPATION

The 8th Concrete Design Competition is open to any registered student in schools of architecture or related disciplines in countries that support the competition, regardless of the participants own nationality.

The supporting countries are: Belgium, Germany and Ireland.

Entries may be submitted by individuals or by teams. Teams may be interdisciplinary and may consist out of a maximum of three persons. All members of a competing team must comply with all of the terms and conditions given in these rules. Entries can only be submitted in the country in which the competitor is studying during the academic year 2017/2018.

2 INFORMATION / LANGUAGE

All general information will be provided through our website only (www.concretedesigncompetition. com).

All communication will be in English. Proposals have to be drafted in English.

3 ENTRIES

3.1 Items to be submitted

The entries submitted by competitors or teams of competitors comprise a maximum of: - Two A1- format panels (width: 594mm x height: 841mm) mounted on flat, stiff, strong backings. These must be laid out vertically (portrait) and numbered one and two.

- One A4 size envelope containing:

- one digital copy of each submitted panel. Format TIF, Jpeg or PDF; 300 dpi on original panel size (A1) and in the original layout of the submitted panels.

- completed identity form

- completed ownership declaration
- a copy of the school registration card for the academic year 2017/2018

3.2 Content of entries

There are no regulations concerning the content of the A1 size panels. They may contain plans, sections, isometrics and so on. Competitors must decide themselves on the most effective ways to present their proposals. Juries will under no circumstances examine any additional documents or models.

3.3 ID-code

Each competitor or team of competitors must choose an ID-code made up of:

- two letters from the Roman alphabet (e.g. AA)

- followed by three figures (e.g. 123)

This ID-code (e.g. AA123), to the exclusion of any other mention, must appear on all documents and wrappings entered in the competition:

- on the outside of any packaging
- on each panel
- on all digital media

- on the sealed envelope containing the identification form, ownership declaration, digital copies of the panels and copy of school registration of the competitor or team of competitors. No other writing should appear on the envelope. On each document, the code must be written in a horizontal frame 25 mm high and 100 mm wide, in the top left-hand corner of the document. The identification form and ownership declaration can be downloaded from our website.

3.3 Anonymity

The panels and the outside of the envelope may not contain any information indicating the identity of the competitors.

3.4 Submission of entries

The date for submission of entries will be set by each national secretary individually. Please check the national secretary section of our website (www.concretedesigncompetition.com) for details. Entries must be sent carriage paid to the national secretaries. The national secretaries are unable to reimburse any expenses whatsoever.

3.5 Nationally declared requirements

Individual national secretaries may provide additional specifications for submission of entries. Please check the national secretary section of our website (www.concretedesigncompetition.com) for details.





4 OWNERSHIP

All materials received by the organisers become the property of the organisers and may be used in any form for publication purposes. The intellectual property rights of each project are the exclusive property of the author(s) thereof. Results (i.e. objects and drawings) produced during the master class will become property of the organisers and may be used in any form for publication purposes. The same rights for publication purposes are also reserved equally for all participants of the master class. Artistic rights, copyrights or intellectual ownership on results produced during the master class remain the property of all workshop participants and contributors as a group.

5 TIMETABLE

The 8th Concrete Design Competition runs during the academic year of 2017-2018. The date for submission of entries will be set by each national secretary individually. Please check the national secretary section of our website (www.concretedesigncompetition.com) for details. The Concrete Design Workshop will run from August ... to ..., 2018.

6 JUDGING

6.1 National juries

Each national secretary organises a national jury. The Jury members will be announced through our website.

6.2 Competition outcome

The jury's decision is final and not open for debate. Each national jury will designate up to three winning entries, and may or may not specify a ranking. Additionally the national juries may award other entries with a 'honourable mention'.

6.3 Disclosure of competitors' names

No jury member will be made aware of competitors' names until after the judging session. In order to guarantee the anonymity of the entries, competitors may not use their projects for any kind of communication before the national jury results are made public with the exception of regular school requirements.

7 AWARDS

7.1 Concrete Design Master Class

National winners are invited to participate in a 6 day Master Class as an international event. The national secretaries will organise and fund travel, accommodation and programme costs. Travel costs will be funded based on travelling from and to the country in which the entries were submitted. Details on the program will be given on our website (www.concretedesigncompetition.com). 7.2 Publication

All winning, and awarded (honourable mention) entries will be published on our website (www. concretedesigncompetition.com).

7.3 Additional awards

Individual national secretaries may offer additional awards to their laureates. Please check the national secretary section of our website (www.concretedesigncompetition.com) for details.







PREVIOUS CYCLES





7 CYCLES

2003/2004 **ROBUSTNESS** - curator: Michael Speaks

2005/2006 plastic-OPACITY - curator: Hanif Kara

2007/2008 implicit performance - curator: Juan Herreros

2009/2010 MONOLITHIC - curator: Valerio Olgiati

2011/2012 ENERGY

2013/2014 Elegance

2015/2016 METAMORPHOSIS

- 11 COUNTRIES
- **19 NATIONALITIES**
- 1907 PARTICIPATING STUDENTS
- 1476 COMPETITION ENTRIES
- 82 PARTICIPATING SCHOOLS
- 239 MASTER CLASS PARTICIPANTS



SELECTION AWARDED ENTRIES PREVIOUS CYCLES



CC001 - Open Source

Christopher Glaister, Afshin Mehin & Tomas Rosén



community and environment

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concrete innovation

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SO124 - Hangover

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Niels Verkooijen

so124



















C CEC

hangover **2**50124

TC120 - Development Of Non-Directional Spatial Skeleton Structure



II Hoon Roh



CDC1

BT282

a a statistic statistics and the statistics of t





Transparency can be an inherent property of material, as in the case of a curtain wall. Transparency can also emerge from a particular mode of organisation.

When two or several figures are superposed one to another, each one of them claiming the common part to both of them. human eyes peception is one of contradiction in spatial dimensions. In order to resolve this contradiction, one has to admit the existence of a new visual quality. These figures are transparent in a way, which means: they are able to Interpenetrate one into another without cancelling themselves out optically. This transparency however proves much more than its visual quality. It even implies a spatial much broader arrangement. Transparency means one will perceive simultaneously various space layers. Such an organisation pushed to extremes obviously induces a certain plasticity in the plan and the visual perception that it offers.

Because of its intrinsic properties. concrete easily allows the production of similar elements on large scale. Therefore one can base oneself on a single element arranged and offered according to the needs of the project and this makes it possible to stick to the creation and the use of only one mould.

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BT282

LU001

Louise Souter







The proposal is walled fundacions strated overbooking the Aren stands, a spore for the spoken word. This is Avary, the strategy of the project Assists of two complementary backless, this first a strategy framework men reduced dublings, when sound and projects may here on only in the strategy backless. These takes the activities of dubling dublings the strategy backless are stated as an endowed to be strategies and any only one of the strategy backless. The strategy backless are assisted and set of strategy backless are addressed by a landbackge ment full of tail strategies. The taken traces are as before and set of strategy.

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CDC2

MG111 - Concrete Potentials



Gergana Stavrera & Matthieu Götz



DC288 - Whon



Diego Cayuelas Garcia







The definition of housing unit of 40 $m_{\rm he}$ is based on the geometrization of two circles decomposite. The service area of the unit is in part compressed and the rest set a versatile space continuam



Fossilized Internal





WHEN ...? References cell minimum



1/30









Jess-Louis Chancese Dec

Backminter Fuller Dominin hour Parical Hauseman Le Ricolais Inde & Gilly De set of heiding with heim

Frederick Kiesler Infos bose

Joan Maneval

JY007 - ComfortCapsule Concrete



Yü Chen, Juliane Greb



CDC3

SZ595 - Urgent Performance



SZ595

Urgent Performance

For most people around the world, living in poor housing conditions and tacking infrashructure, the ungent architectural need is still to fulfill basic housing necessaries.

This is especially the case for millions of refugees. Having been chased from their land and neigborhoods, they leave behind friends and family,property, and their old communities.

This fort wind ad grave response are often UNs standard indications are appressively and appreciation of the second standard indication and an thread of the second standard encloses and an thread thread the second standard encloses and an enclose that Advances they are completely unit for permant resolutions, and anticiarisety, their late to claim for noise permant resolutions, and anticiarisety, their lates to claim tark noise permant resolutions and an enclose Claimstand they care get too hall in the same in the winting and get easily black as usage on take doesn't by montaus of hispay winds.

So as why whigher cares become propaged settlemeths, the weat for a more permanent existion is urgent. Other lists topole-up otherpring is provided, own or more carego grain into local communities with tens of througands of maidents, who are to live and work there for other as long as 15 Weats.

As refugee samps often are crains and overpopulated - the returners, their, and physical access th women and children can grow undersafuly high. Terms cannot provide authors physics or security, and increases these tasks.

Fef-gain camps any highly channe when it covers to classify topograft, population and model, and one standard shape can hardly meet the variaux needs. But where exercises are scarse, shripte weights rate design can make a big impact on peoples living-cond-

design can make a big impact on peoples living-condficers. And by not praviding a strict givine from thopshally this colors we builting method adapts to a nich visitely of conditions, and is easily comprised with local knowledge and methods.

By being at open-end design, it empowers the local community and each intrividual to decide which design they want therefores, and how to bent collectively shape their own new neighborhoods.







Frederik Sund





BK007 - pliableCRETE



Bjorn Kasandikromo



LLY012

Ljuba Tascheva



01

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material Two different types of concerns are used in the project according to their standard properties



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K













QE 598

QE598 - The Monolithic

Moritz Nicklaus & Simon Scheithauer

QE 598

THE MONOLITHIC

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AF111 - Concrete Cymatics

Joanna Burton, Pablo Humanes & Sadaf Mirzaei



INTRODUCTION

AF111

Exclusive and incident advects associal group through the a secondent ans Accordings to how over the hape town ing with concrete was in the last Cantary.

"energy-aware" and the bottom of the set of the back and make it better?





So what is Cymatics?

Notight, to the mark of vestilence of and vestion with an name control from 100 Cooks works (Qo I wave) from tarty, the flagt to be tended and in the a plate startering of an mechanic. Well whereas regions of measurem and measure interflages at an enter while in a the cooks of other to be plate at a Different of the works of the start cook of pandmarks of the flags of the works of the start cook of plate.

DOING IT WITH CONCRETE

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the results in Some of particular distribution for model. For an instability multiple community for the second collapse to the target the collapse wave any simple

APPLICATIONS

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⁴ And the train a second state is the second s













CR777 - To Cast Light On Seaweed

Colin Dorgan & Ray Mc Greal





WA628 - Ernst-Reuter-Platz

Michael Albertshofer, Sebastian Awick & Steffen Winkler





FE027 - Concrete Weather



FE027



When I think about concrete I have this image in mind of a solide monolithic and rough artificial stone which has its own silent and powerful presence.

Let us conceptualize it in a new way.

Before concrete turns to solid it is a liquid. Depending on the ingredients this liquid substance slowly solidifies itselft to become a solid stone.

> I conceive concrete as a liquid that can and should be reshaped by causes that naturally affect construction materials. More precisely movements that are caused by the wind, the rain or even the sun and the snow. The weather is here a new ingredient that gives life to concrete. Imagine four examples :

- During a windy day it could be marked by a thousand undulations.

- During a rainy day it could have some ripples because of the drops that hit its surface.

 During a sunny day it could be almost smooth but still marked by subtle variations.

- During a snowy day it would seem to be frozen.

In addition to its features this new idea of concrete could open possibilities for a sensitive and contemporary architecture. It implies an unfamiliar experience for dwellers : a mental and physical reconnection to Nature.

This «concrete weather» is a idea that goes beyond architecture knowledge. It involves cooperation with Artists, craftworkers, chemists and others to become real.



RN040 - Eat Your House Out

Roel van Nieuwenhuizen

RN040 1

EAT YOUR HOUSE OUT



RN040 2

YOUR ARE LOOKING AT A COMBINATION OF A BIRD-HOUSETHACOULDHEUSED BY FEEDING BIROS AND A BIRDHOUSE THATS COULD BE USED AS A BIRDS NEST.

IN THE BEGINNING OF THE WINTER YOU CAN PLACE THIS VERY ELEGANCE BIRD-HOUSE IN YOUR GARDEN. SOON THE BIRDS WILL BE EATING THE BIRDSEED FILL-ING THAT IS EMBEDDED IN THE CONCRETE.

AFTHER EATING A WHILE THE BIRDS CREATE A HOLE IN THE CONCRETE BIRD-HOUSE.

NOW THE FORM OF A BIRD'S NEST IS CREATED IN THE BIRDHOUSE. WHEN THE WINTER IS COM-ING TO AN END, A BIRD GAN MAKE A BIRD NEST INSIDE THE BIRDHOUSE.

WHEN THE BIRD FINISHED THE NESTING AND THE YOUNG BIRDS ARE FLOWN OUT, YOU CAN REMOVE THE BIRDSNEST AND RE-FILL THE BIRD NEST WITH A BIRDSEED FILLING.



PM308 - Irminenstek Trier





Lame 1 (200)

Pol Firmenich & Michael Wagner





Ansicht 1:500



Draufsicht 1:500

CDC7

FM175

CONCRETE THEME FRE.

FM175 - When A Fire Starts To Burn

Aoife Flynn & Poilina Mullan

FM175



FM175 - PAGE 1 - INTERNATIONAL CONCRETE DESIGN COMPETITION



FM125 - PAGE 2 - INTERNATIONAL CONCRETE DESIGN CONFETTION



OO360 - Membrane Shell Structure

Thomas van Dessel



HT308 - Sun Sails





Sebastian Schuch, Michael Wagner, Pol Firmenich, Daniela Repplinger, Lorenz Reiter, Kirsten Verstraeten & Niklas Emmerich







SEVEN MASTER CLASSES





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