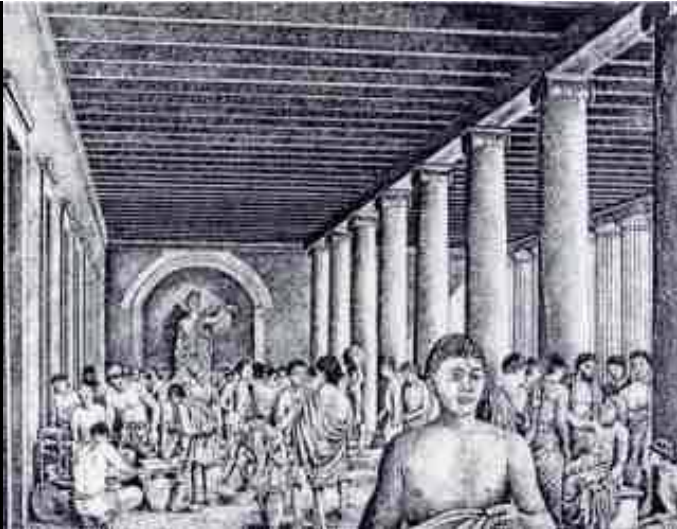


EXPRESSION OF INTEREST

NEW BUILDING FOR
THE FACULTY OF ARCHITECTURE
BUILDING AND PLANNING

BUILT PEDAGOGY



LEARNING BY COMMUNICATING

Atmospherical Learning – in order to perform teaching and learning within a balance of a natural and built landscape, the New Building for the Faculty of Architecture, Building and Planning will be a vivid center for exchange and communication. A place where all participants of the Faculty will be in contact with each other – both in designated areas such as the classrooms or the seminar spaces and in circulation zones or waiting lounges in between.

In two major academic projects (University of Applied Sciences in Dusseldorf, Bezalel Academy of Arts and Design in Jerusalem)

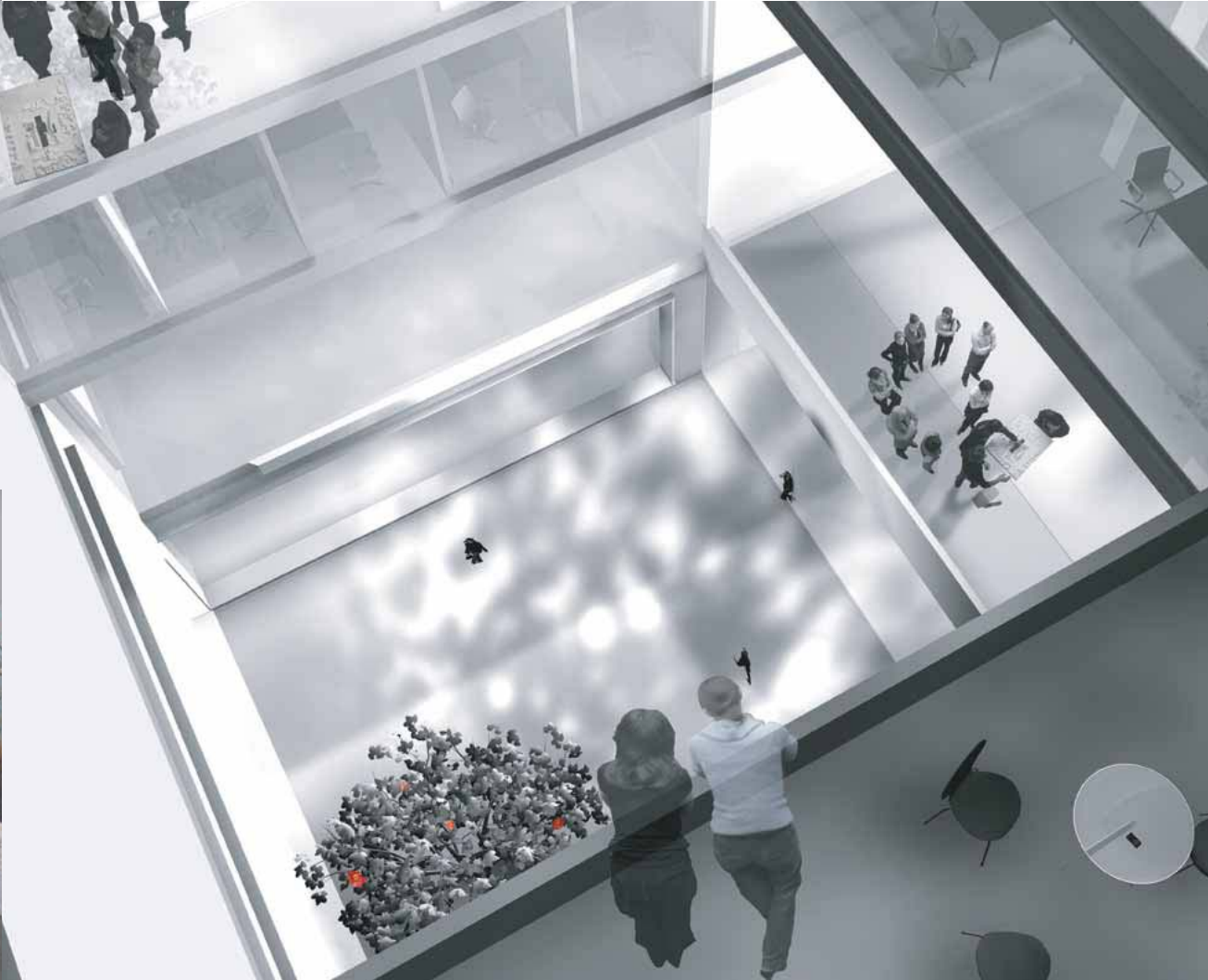
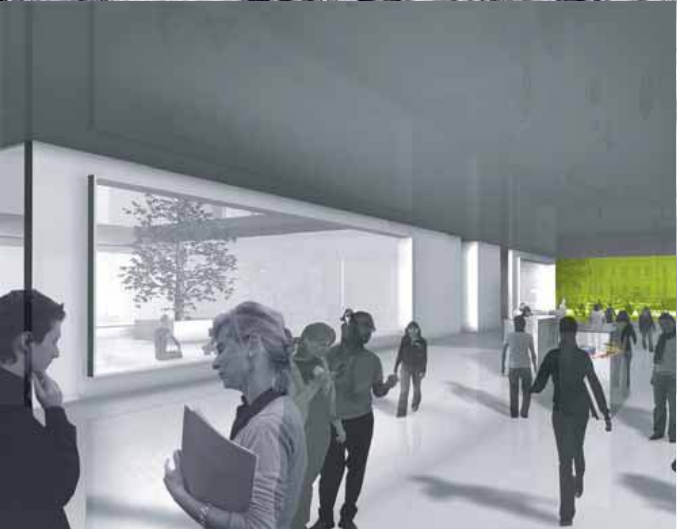
STUDYO ARCHITECTS has been experiencing communication zones in between the determined programme spaces being most desirable.

Bezalel Academy of Arts and Design, which renders a major art school with its 35.000sqm not only in Israel, but also in the world of art schools, is a commissioned project of STUDYO ARCHITECTS since January 2008 and ever since then developed in detailed dialogue with the client – including all faculties.

There have been several visits to the Academy – starting in the competition phase, even

intensified during the phase of Schematic Design. At the Bezalel Academy, there are ten faculties, each to be determined particularly, whereas the communication between faculties emerged as one major focus following the vision and mission of the Academy.

It is most essential for an Academy to allow, or even increase communication zones and connections between the seminar spaces, auditorium or studio spaces. Teaching and learning do not end in a class, but also continues in corridors and waiting lounges. Just as known in the antique example of a *stoa hall*, where students pace and study.



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EXPRESSION OF INTEREST

NEW BUILDING FOR
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ACADEMIC ENVIRONMENT



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LEARNING BY STUDYING

Temporary Spaces – imagine a series of spaces, like joker fields, ready to be brought to life by Research Higher Degree students. These spaces can be changed and modified. A concept usually known from museums and art institutions offering extra spaces as temporary ateliers for special artists or particularly talented personalities for a certain period of time.

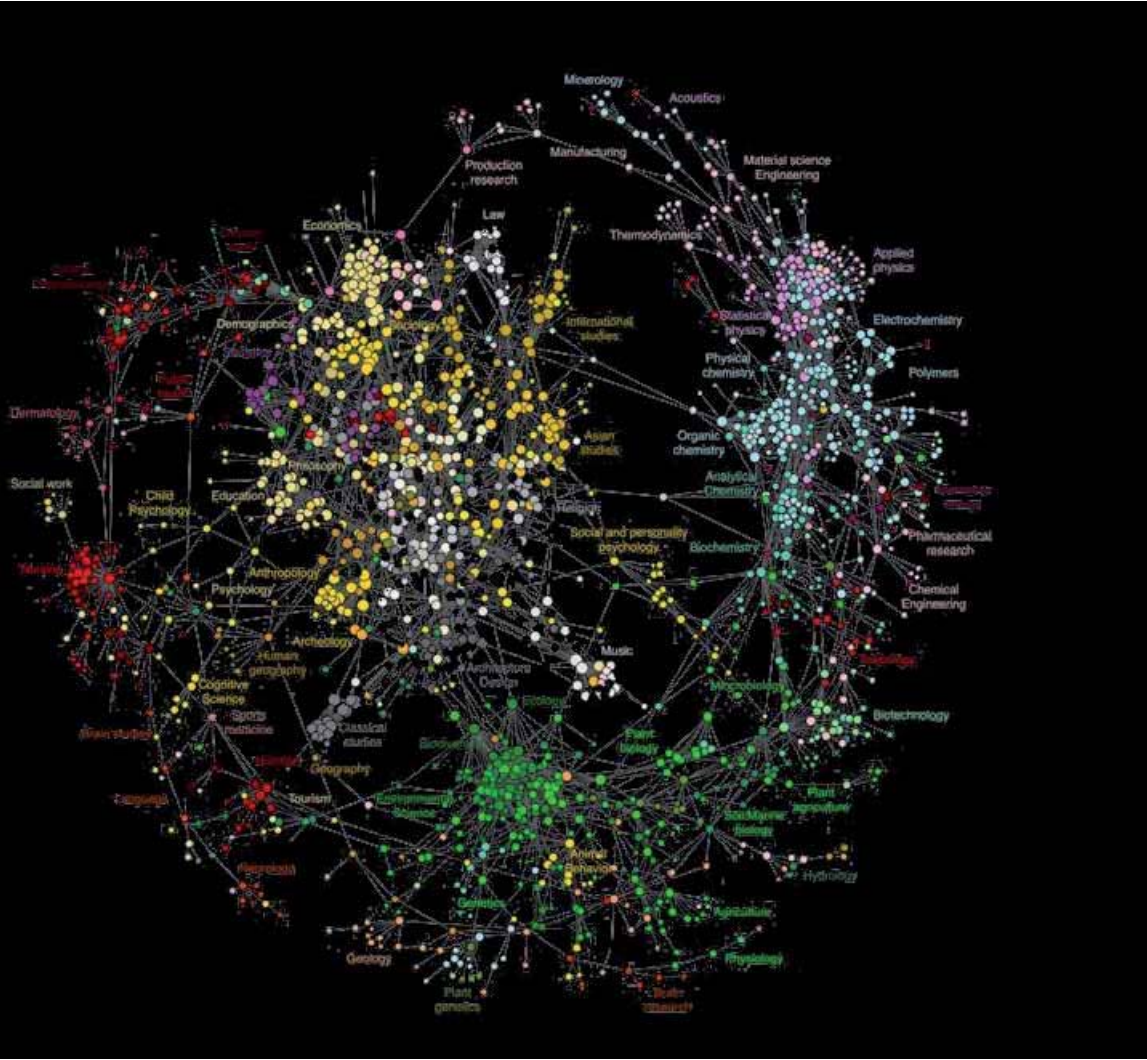
This well-known and also verified concept in the world of museums [for example the 21st Century Contemporary Museum of Kanazawa, Japan] can be easily transferred to a Faculty Building for designated research projects.

It is an intention of STUDYO ARCHITECTs to establish a range of various spaces allowing a flexibility in terms of size and quitness conceived like a laboratory – Temporary Spaces encouraging the research students to experiment in new technologies, new software, material studies – to a name a few in the wide range of Architecture, Building and Planning yet to be discovered.

Research has always been the key for a university as a public-spirited and internationally-engaged institution – so will be the New Building with its facilities within the Academic Environment.

Aysin Ipekci, Managing Director of STUDYO ARCHITECTs, is part of the teaching staff in the Masters of Sciences at the Bergische Universitaet Wuppertal of which *Research* is part of the teaching programme. The most important difference to a seminar or a studio in the Bachelors, in *Research* units the tutors themselves do not know the results. Rather like a physician or chemist, RHD students are offered a playfield for new discoveries.

The quality of *studying* and the opportunity to transfer one's knowledge emerging out of research projects, these Temporary Spaces render a realm of possibility for development.



EXPRESSION OF INTEREST

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DESIGN STUDIO

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LEARNING BY DOING

The interaction between the teaching and the learning will contribute to the atmosphere of the Faculty and the results in class.

Architecture students not only need their home base in an atelier to work in a concentrated space on their projects, but also need their colleagues (along the tutors) for a mutual exchange of ideas. A place where both the traditional as well as the current state of the art, techniques in 2D and 3D drawings and 2D and 3D modelmaking are offered.

In order to provide a complete study of architecture ranging from analog to digital me-

thods, the proximity to the Workshops and the Digital Teaching Spaces can be helpful.

In the studios and ateliers, the students are not arranged according class or year of study, therefore interaction between students from all year levels is possible, and an essential part of an architecture study when first year students learn and see from the experience of fourth year classes.

These qualities are part of the Academic Concept of the Faculty of Architecture, Building and Planning – yet to be translated spatially on behalf of the Design Brief. To STUDYO AR-

CHITETs it will be highly important, the that the studio spaces particularly render a most important part in the Architectural Concept, for the students spend most of their time in their studio. Here, the tutors might pace in anytime for desk-crits and here, the students develop their individual skills.

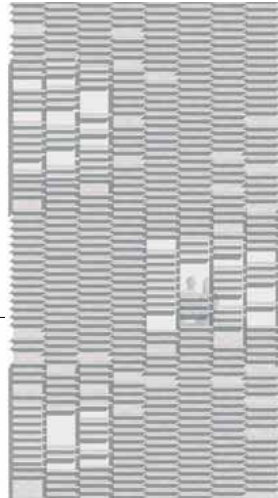
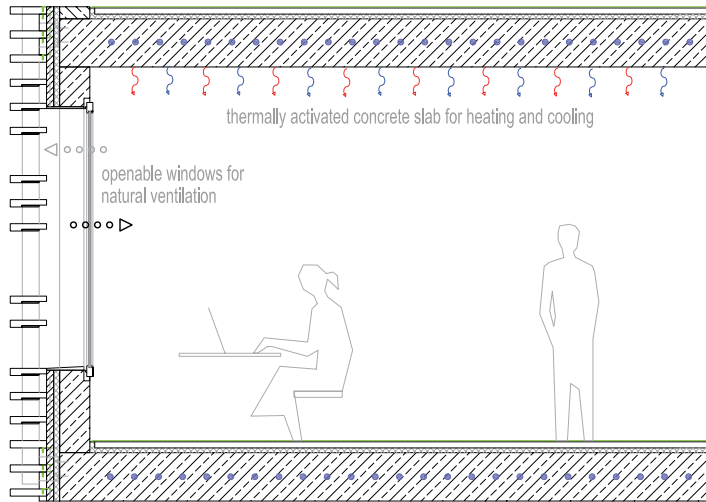
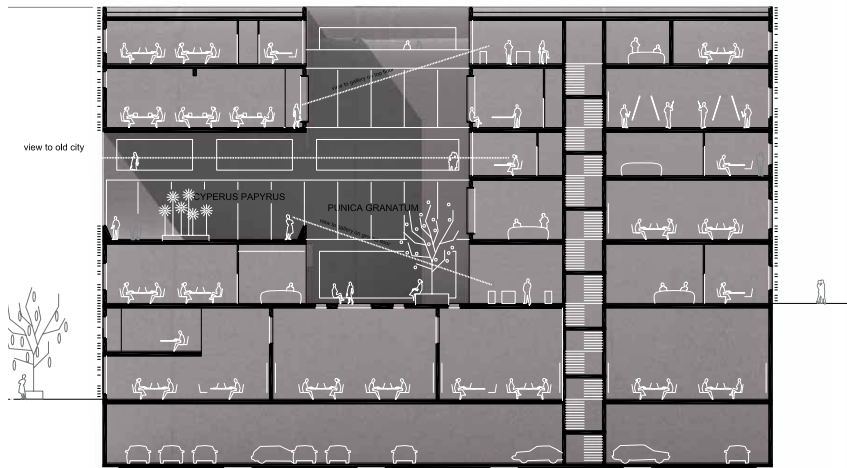
Along the design of universities and academies, STUDYO ARCHITECTs is as well part of the academic world, teaching in studios, seminars at several universities in Aachen, Wuppertal, Berlin, and Istanbul. This experience is of great importance, when designing a New Building for a Faculty.



EXPRESSION OF INTEREST

NEW BUILDING FOR
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BUILDING AND PLANNING

LIVING BUILDING



CONCEPT FOR A GREEN BUILDING IN THE COMPETITION PHASE, July 2007
Bezalel Academy of Arts and Design, Jerusalem

This project is commissioned since January 2008 and since then continuously modified in the concept for green building, yet the key issue are still in focus.

In general, STUDYO ARCHITECTs approaches all their design concepts as an assignment to be solved on each level of space: programme, comfort, orientation, light, structure, landscape, systems, etc. – interpreting the client's and users' needs as a whole.

Just to pick one aspect regarding Systems and Daylight: the New Campus Building for Bezalel Academy is conceived as a volume including patios. In addition to a general architectural approach optimizing spatially the requirements given by site and climate of the location, following is an excerpt of the System's Report submitted for the Competition Phase.

COOLING with the SUN

The peak cooling load and the maximum solar radiation are occurring at the same time. Therefore it is very efficient, to drive a chiller with the power of the sun. No accumulation of cold is needed then. To get the solar energy a couple of different types of solar collectors are used: glazed and unglazed flat-plate collectors, parabolic dish collectors, parabolic trough systems, power tower systems, vacuum tube solar collectors.

ABSORPTION CHILLER

The collected solar energy heats up a transfer medium and can be used as the heat source of an absorption chiller. Absorption chiller provide cooling to buildings by using heat. This seemingly paradoxical but highly efficient technology is most cost-effective in large facilities with significant heat loads. Absorption chillers not only use less energy than conventional equipment, they also cool buildings without the use of ozone-depleting chlorofluorocarbons (CFCs).

ADIABATIC COOLING

The cooling ceiling removes heat only. It does not affect indoor air quality. To meet the hygienic need for outside air supply, remove pollutants (CO₂, tobacco smoke, etc.) and control air humidity, mechanical ventilation with HVAC is the most suitable method.

The adiabatic cooling works as follows: [1] water under high pressure will be sprayed into the exhaust air stream [2] the water vaporized and takes the needed energy [evaporation enthalpy] out of that air [3] the exhaust air absorbs the steam and cools down to approximately 22°C [4] in the following heat exchanger the low temperature is used to cool down the external air

This cooling system can reduce the peak and over all refrigerating capacity as well as the running costs.

COOLING CEILINGS

Cooling ceilings are equipped with cooling pipes within the slab with chilled water flow tailored to the ceiling features and the requisite capacity. Via radiation and natural convection (air flow due solely to density differentials), the chilled ceiling surfaces absorb heat from people, objects and other room surfaces as well as indoor air, which then is removed by means of water. As of a specific cooling load of 40 to 50 Watts per squaremeter the actual investment costs for a cooling ceiling system combined with an air-conditioning system for minimum outside air flow are lower than with an 'air-only system'. The separation of 'cooling' and 'ventilation' enables a more adaptable chilled water supply better suited to the building and its use.

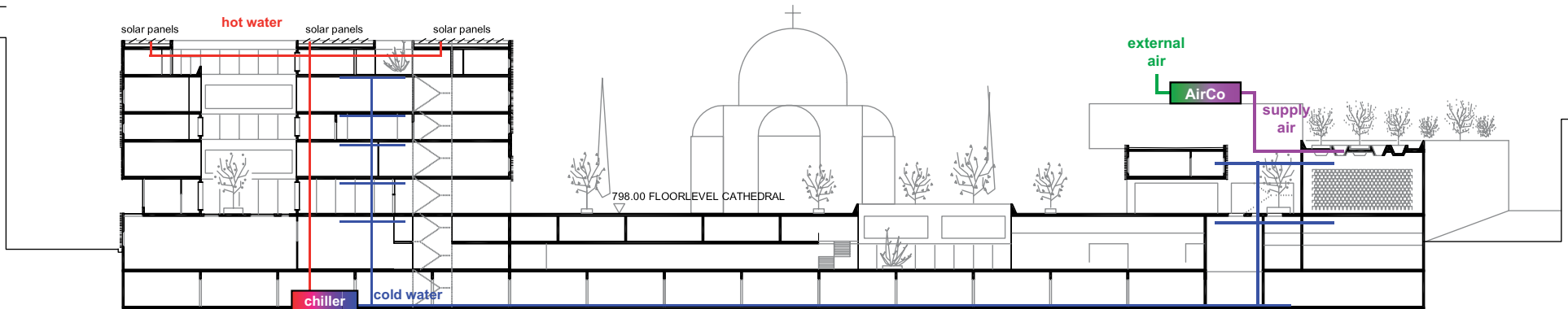
CONSTRUCTIVE SUN PROTECTION

The stone lamellae on the facade protect the interior from strong sun, while at the same time offering generous views outside.

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CAPABILITY AND PROCESS

COMPANY FACTS
listed as GmbH since 2007
found in 2005

Managing Director
Aysin Ipekci, Dipl.-Ing.
Architect

Registration
Architektenkammer
Nordrhein Westfalen
Germany
AKNW A 35304

Branch
Cem Yurtsever, Dipl.-Ing.
Director **STUDYO** Istanbul

Employees
Total 7
Architects 4
Administration 1
Trainee 2

Third Party Liability
Property Damage 500.000 EUR
Personal Injury 3 Mio. EUR

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BEZALEL ACADEMY OF ARTS AND DESIGN Jerusalem, Israel

Type: Worldwide Open Architecture Competition
Status: 1st prize + Commission
Client: Bezael Academy Jerusalem
GFA: 35.000 sqm
Budget [Construction]: 60 Mio. USD
Duration: 2007 - 2012

Reference to this project
client
Prof. Arnon Zuckermann, President Bezael Academy
president@bezael.ac.il

UNIVERSITY OF APPLIED SCIENCE Düsseldorf/ Germany

Type: Restricted Open Architecture Competition
Status: Competition
Client: Bau- und Liegenschaftsbetrieb NRW
GFA: 78.000 sqm
Budget [Construction]: 125 Mio. EUR

Reference to this project
Project Management
Jörg Ewald-Lincke, DS-Plan
joerg.ewald-lincke@dreso.com

ZOLLVEREIN PARK Essen, Germany
UNESCO World Heritage
collaboration / project by F1RSTDESIGN.COM

Type: Restricted Open Architecture Competition
Status: 1st prize + Commission
Client: Entwicklungsgesellschaft Zollverein mbH
GFA: 100 hectares
Budget [Construction]: 12,8 Mio. EUR
Duration: 2005 - 2010

Reference to this project
project partner
Dipl.-Des. Christopher Ledwig, F1RSTDESIGN, principal
ledwig@f1rstdesign.com

STUDYO ARCHITECTs was founded in 2005 as a collaboration between Cologne and Istanbul by Aysin Ipekci and Cem Yurtsever and is established as GmbH since 2007. We believe in...

...CROSS-BORDER

The office is interested in exploring the possibilities of cross border design fostered by its special location as well as former experiences. The emphasis during this process lies in finding and blending essential spatial elements.

...TANGIBLE AND LUCID

The object is to be suspended in between the two magnetic fields of a most clear and precise idea and the absolute wish to be touched and lived in. Materials and abstract thoughts contribute to the design in equal strength.

...CUSTOM-MADE

Projects are made exactly for one place. The belief in urbanistic relevance of an object, atmospherical input as well as specific factors like geographical, social, economic and cultural are taken into account during the approach of a design.

Aysin Ipekci has been educated in Germany, RWTH Aachen. Graduated from Architecture Studies in Aachen in 2000 [Dipl. Ing.] Since 2000 freelance architect working for various architectural firms in Cologne 2000/01, Tokyo [SANAA Architects] 2002. Currently in Cologne, Istanbul. Lecturer at FH Dusseldorf 2003-05 in conjunction with Visiting Prof.s Duncan Lewis, Kazuyo Sejima, Ryue Nishizawa, International Workshop at laaM, Barcelona 2003. Since 2005 Assistant Professor at the Department of Prof. Ulrich Königs, BU Wuppertal, Construction + Design. Co-founder of STUDYO in 2005, awarded with the *40under40 Award* and the *Förderpreis des Landes NRW* for young artists in 2008.

Cem Yurtsever, has been educated in Germany, RWTH Aachen, University of Washington CAUP, Seattle. Graduated from Architecture Studies in Aachen in 2000 [Dipl. Ing.] Since 2000 working in various architecture and lighting consultant firms, mainly in Berlin. Moved to Istanbul 2003 where currently associated to projects in collaboration with architecture firms, amongst them Dara Kirmizitoprak, ZOOM Mimarlik, Co-founder of STUDYO in 2005, awarded with the *40under40 Award* and the *Förderpreis des Landes NRW* for young artists in 2008.

COMPETITION TEAM + LOCAL CONTACT

As been experienced in various projects in the past, STUDYO ARCHITECTs very much believes and trusts to work with local contacts and local architects already in the early stages, even in competitions. Therefore, this will be the working concept for the Competition of the New Building for the Faculty of Architecture, Building and Planning in Melbourne.

Aside from a local contact, following disciplines will be part of the design team:

Structural, Systems, Landscape, Day- + Artificial Light, Signage and Wayfinding System

EXPRESSION OF INTEREST

NEW BUILDING FOR THE FACULTY OF ARCHITECTURE BUILDING AND PLANNING

MERIT

AWARDS

2008 Förderpreis des Landes NRW für junge Künstler

Europe 40under40 Award by The Chicago Athenaeum

2003 Coram Design Award

1998 Förderpreis des Deutschen Stahlbaues

PUBLICATIONS (extract)

2009 Mimarlik Turkey

2008 Bauwelt Germany Young House Magazine (D) TAZ Germany Mimarlik Turkey

2007 Bauwelt China Haaretz Israel The Jerusalem Post Yenimar Turkey Wettbewerbe Aktuell (D) XXI Turkey AV proyectos Spain Ottagona Italy

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