SIMONE GIOSTRA & PARTNERS | GREENPIX - ZERO ENERGY MEDIA WALL, BEIJING

SIMONE GIOSTRA & PARTNERS | PROFILE

西蒙.季奥斯尔塔及合伙人

季奧斯尔塔先生1994年毕业于意大利米兰的建筑专修学院,获建筑学硕士学位。在Alvaro Siza, Raphael Vinoly, Raimund Abraham, Steven Holl and Richard Meier 等著名 建筑师建造他们在美国和欧洲的项目时,他担任了项目 建筑师。.

西蒙.季奥斯尔塔从业已超过十二年。他的专业经验和知识 促使他开创了这个致力于研究和探索建筑功能和新媒介的 公司。公司认识到视觉效果在建筑项目的设计和实施过程 中的影响力。因此,为了将现有条件发挥到极致,公司结 合了建筑领域已有和新生的手段,并借助跨学科的合作。

目前,他设计并负责建设一些在中国项目。这些项目极具 创新性,北京的西翠娱乐中心就是其中之一。该项目采用 可自生能量、近2万平方英尺的媒体幕墙。

同时,季奥斯尔塔先生还活跃在学术界,将自己的专业实 践经验与研究相结合。他目前在新泽西工程学院建筑系研 究生院和纽约PRATT任教。

奥雅纳

奥雅纳是一家集设计师、工程师、规划和业务咨询顾问为 一体、为全球客户提供多样化专业服务的全球性企业。我 们的工作强调可持续发展。公司为全球人类楼宇建筑、交 通运输及其他基建项目提供最富有创意和可持续发展的方 案,是杰出创新的推动力。

奥雅纳有三个全球业务范畴 - 楼宇、基建与咨询。我们 为客户提供多元化服务,集合不同部门甚 至不同地域的员 工参与同一项目,旨在汇集全球最佳专业人才,尽善尽美 地满足客户需求。

奥雅纳于1946年成立,在全球超过35个国家开设了90多个 分支机构,共有员工9000余人。无论任何时间,公司都有 一万个以上的项目在全球不同地区进行中。奥雅纳已在中 国经营了超过30年,全公司有近四分之一的员工长驻香港 和中国内地。

在中国我们曾先后参与500多个项目,包括体育场馆、摩天 大楼、机场、桥梁,高速公路和铁路等。除了北京首都国 际机场3号航站楼,我们在北京的其他工程项目还有国家体 育场、国家游泳中心、北京央视总部大楼,中国国际贸易 中心三期(北京的最高建筑),北京南站(铁路),还有 作为奥运会国际广播中心和主新闻中心的国家会议中心

项目 GreenPix-零耗能多媒体幕墙

地点 中国北京西翠路

投资方 净雅集团

建筑师 西蒙.季奥斯尔塔工作室(Simone Giostra)& Partners

照明设计和幕墙工程设计 奥雅纳工程顾问(ARUP)

太阳能技术研发 Schüco International, Sunways

太阳能板制造商 无锡尚德太阳能电力有限公司

液晶屏制造商 索恩(Thorn)照明集团中国分公司

网址 http://www.greenpix.org

GreenPix-零耗能多媒体幕墙,是一项可持续能源和数字媒体技术的创新 性项目,是为了位于2008奥运主办场 地附近的北京西翠娱乐中心而设计。 这一项目拥有着世界上最大的彩色液 晶显示屏和中国第一套集成到玻璃幕 墙的光电系统。整个建筑通过白天吸 收太阳能、晚上用它来照亮屏幕,反 映出一天的天气循环,从而以自给自 足的能源组织系统来运作。

通过为整幢建筑的表面提供迄今为止 最先进的可持续能源技术,这一媒 体墙将为北京市提供第一个专注于数 字媒体艺术的集结地。这一建筑将于 2008年3月22日开始对公众开放,届 时将会有特别授权的视频节目和来 自中国、欧洲和美国艺术家们的现 场表演。整个项目由纽约的Simone Giostra & Partners(在欧洲和美国 以其创新性幕墙而享有盛誉) 设计 和实施,照明设计和玻璃幕墙工程设 计由伦敦和北京的奥雅纳(ARUP) 公司提供。项目主管Luisa Gui将与软 件 开发者美国媒体艺术家 Jeremy Rotsztain 协调开幕式程序。



The Media Wall Projecting Media Art Content



Glass Solar Panels



The Media Wall During Construction



The Media Wall at Sunset

The Media Wall at Night

借助德国顶级制造商Schueco and SunWays 公司的支持, 建筑师 Simone Giostra 及 Arup 公司开发了一项将光电 单元层压到玻璃幕墙的新技术,并由中国制造商尚德太阳 能电力有限公司检查了第一批玻璃太阳能面板产品。 多晶光电单元层压到幕墙玻璃当中,并于整个建筑的表面 上通过变化的密度进行放置。密度设计允许在内部程序需 要时获得自然光,从而降低热能获取和太阳能向幕墙所需 电能的过多转化,增强了整个建筑的表现力。



The Media Wall Generating Energy During the Day

通过这一新型数字图案,西翠这一箱型不透明商业建筑获得了其与城市环境进行 交流的能力。通过内置的用户定制软件,其"智能皮肤"使建筑内部与外部公共 空间进行互动,将建筑物的玻璃幕墙转变为一种互动娱乐和公众活动环境。

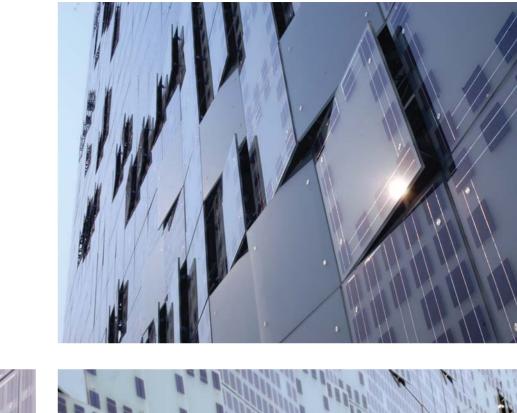
P06 GreenPix - Zero Energy Media Wall



The Media Wall Main Entrance





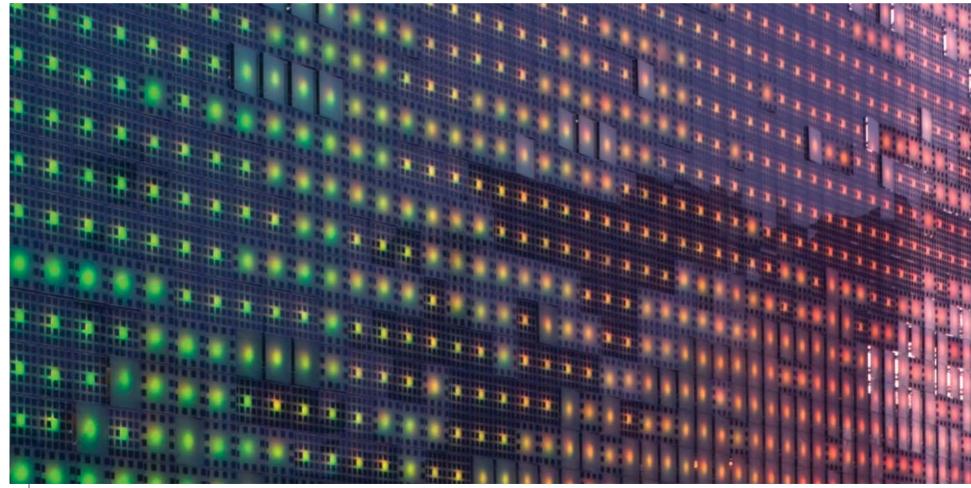


Media Wall Reflecting Different Ligth Conditions

SIMONE GIOSTRA & PARTNERS www.sgp-architects.com

通过该屏幕向更广的范围传递行为和活动的信息、在北京 市范围内获得大量的观众,这是在市区建筑物上将媒体/信 息技术与建筑学充分地综合,代表着一种致力于创新艺术 表现形式的交流平台。 数字技术与建筑的结合提升了全球影响、巩固了北京作为 改革和城市复兴中心的声誉,技术的创新使用、交流的试 验性方式和社会的互动定义了城市在全球化进程中的新标 准。

P06 GreenPix - Zero Energy Media Wall



Close-up of the Media Wall at Dusk

SIMONE GIOSTRA & PARTNERS www.sgp-architects.com



Workers on Site

P06 GreenPix - Zero Energy Media Wall



Installation of the Media Wall

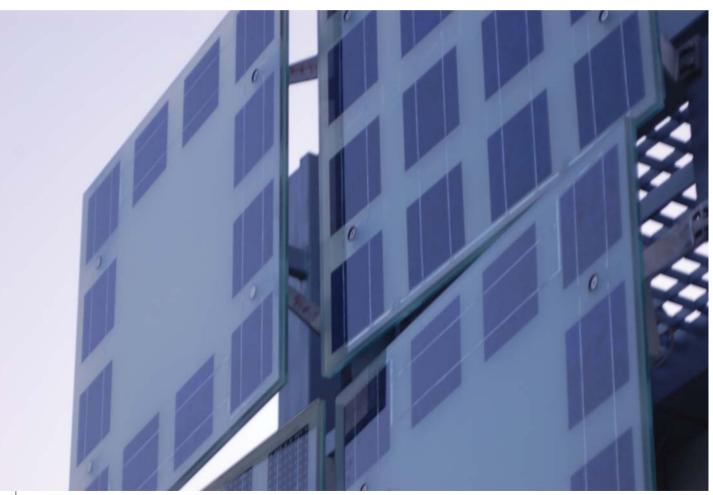
GreenPix是一面由2292个彩色(RGB)LED发光点组成、面积相当于24000平方英尺(2200平米)的超大动态内容显示屏幕。超大的屏幕和特有的低分辨率增强了媒体的抽象视觉效果,相较传统媒体正立面领域的高分辨率屏幕的商业应用,GreenPix提供了一种具艺术特色的交流形式。

P06 GreenPix - Zero Energy Media Wall

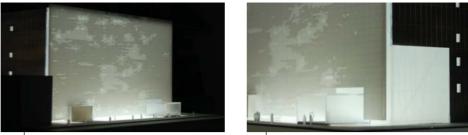


Lighting Test Using the Prototype





The Prototype Was Used for Extensive Testing of the System

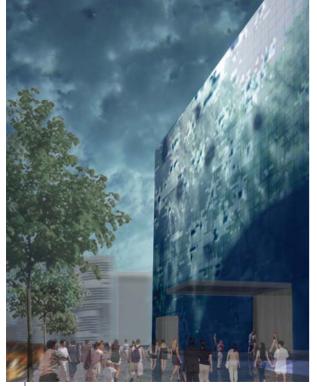


Model View

Model View - Detail

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The Media Façade: Still Frame from the Concept Animation

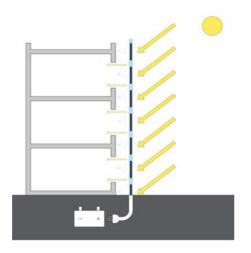




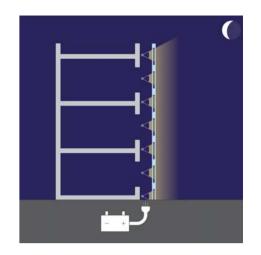




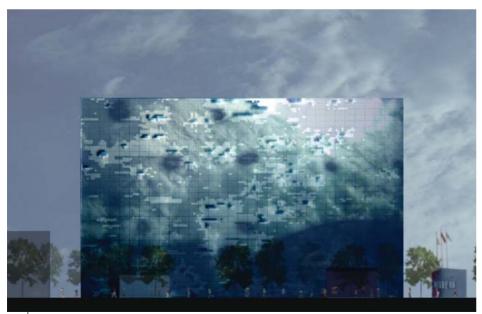
SIMONE GIOSTRA & PARTNERS www.sgp-architects.com



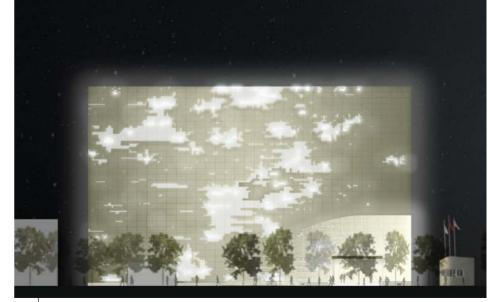
日间的轮回:生成能量 :日间,光 电太阳能元件在遮阳,防止楼宇温度 过高的同时,集聚剩余的太阳能。



夜间的轮回: 消耗能量 : 夜间,日 间集聚的能量转换成的光线,外墙变 成炫目的灯罩,楼宇即刻成为北京夜 景中震撼人心的视觉盛宴。

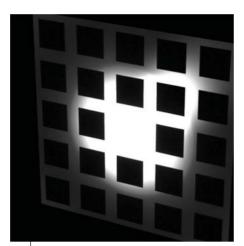


The New Façade: Midday



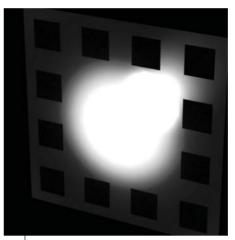
The New Façade: Midnigh

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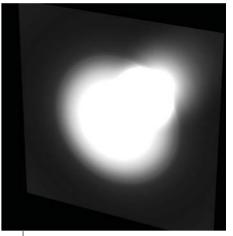


P06 GreenPix - Zero Energy Media Wall

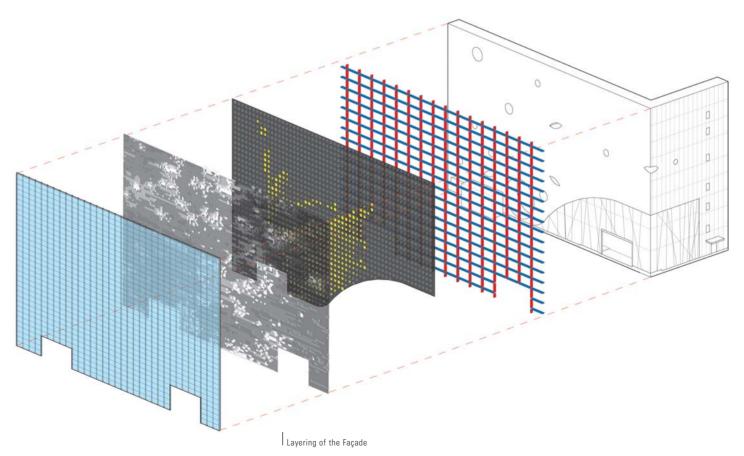
Low Transparency Lighting Simulation by Arup

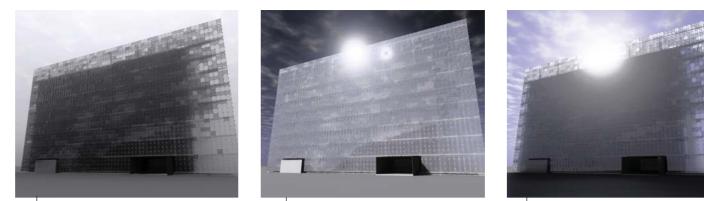


Medium Transparency Lighting Simulation by Arup



High Transparency Lighting Simulation by Arup



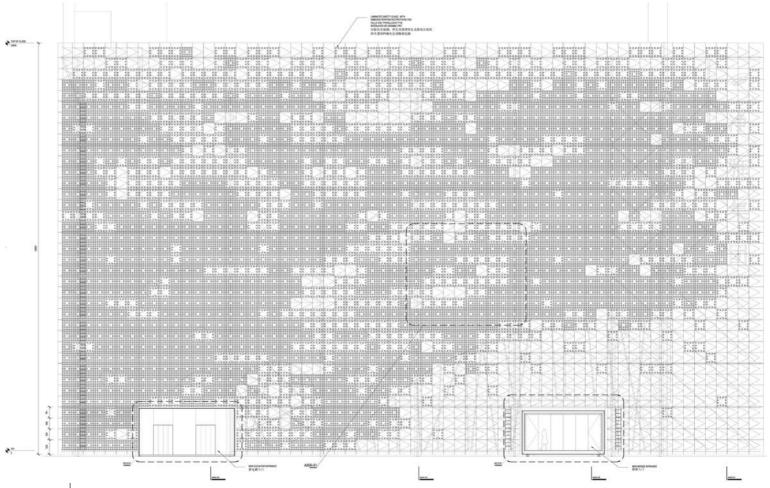


P06 GreenPix - Zero Energy Media Wall

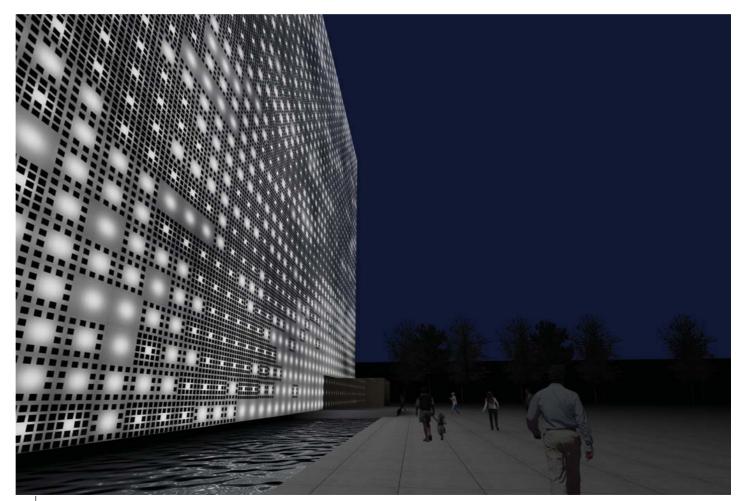
Overcast Afternoon Rendering by Arup

Clear Morning Rendering by Arup

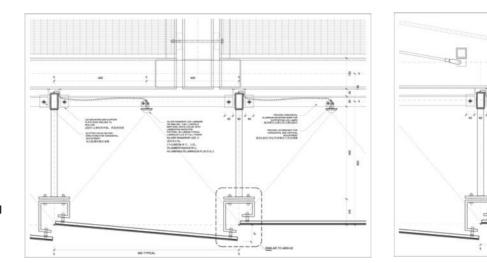
Clear Afternoon Rendering by Arup



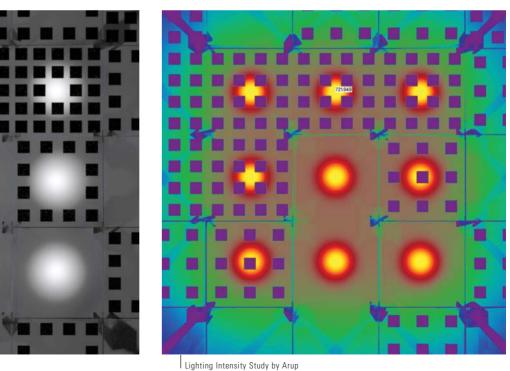
Elevation from the Construction Documents Set



Perspective Rendering



P06 GreenPix - Zero Energy Media Wall



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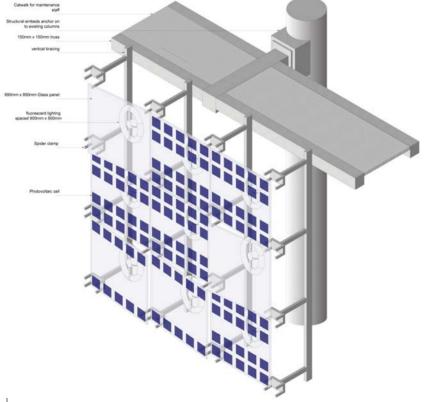
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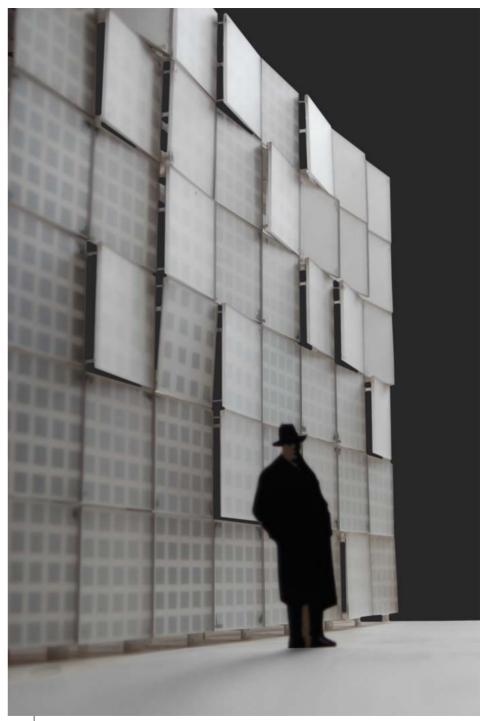
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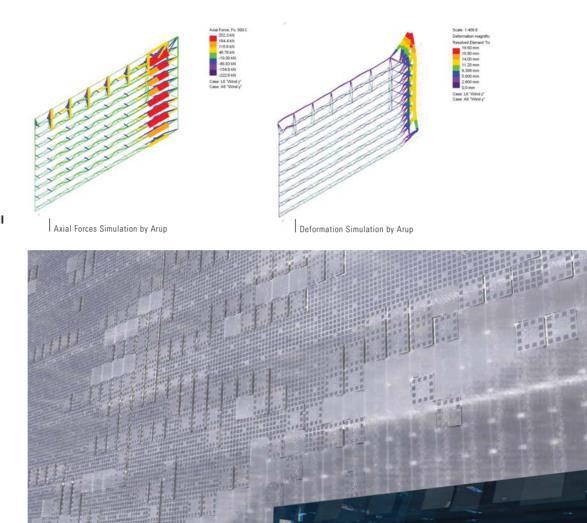
Lighting Simulation by Arup



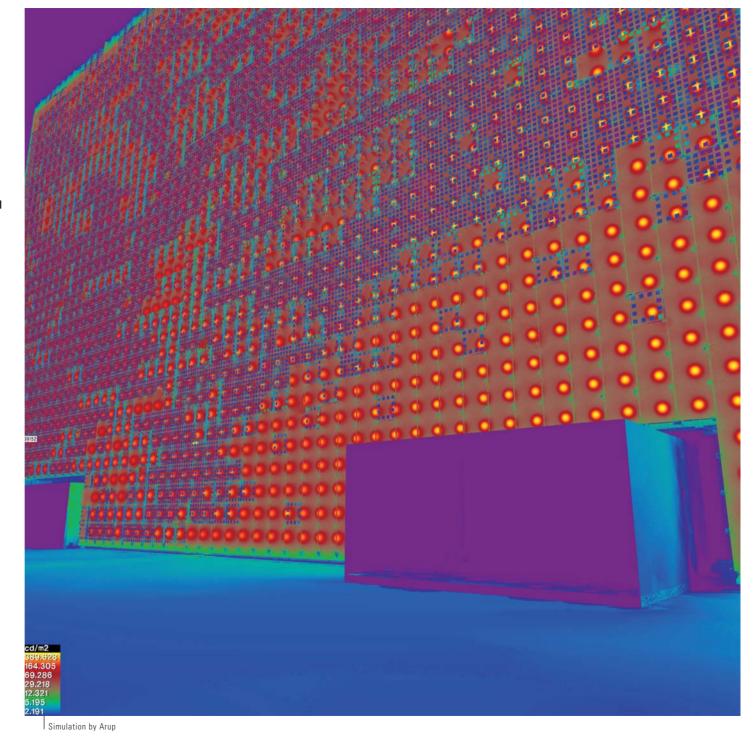




View of the Model









SIMONE GIOSTRA & PARTNERS | PROJECTS

P09 Whehai Grand Hotel

Location Whehai, China

Project 2007

Completion 2009

Client Jingya Corporation

Scope of Services Architecture Design Contract Documents Construction Administration

Structural Engineer TianJin Engineering

Gross Floor Area 120,000 sf

Construction Cost Confidential

Program Hotel Entertainment Center



P08 GreenPix Content Management System

Location Beijing, New York

Project 2007

Completion 2007

Client SGPA

Scope of Services Sofware Develpment Content Management

Media Development Jeremy Rotsztain

Gross Floor Area 20,000 sf

Construction Cost Confidential

Program Content Menagement System for Xicui Media Wall



P07 D'EAR Flagship Store

Location Frankfurt, Germany

Project 2006

Completion 2007

Client Hubertus von Alvensleben

Scope of Services Concept Design Design Development

Gross Floor Area 5,000 sf

Construction Cost Confidential

Program Store Concept and Flagship Store for hearing-impaired equipment



P06 Xicui Entertainment Center and Media Wall

Location Beijing, China

Project 2005

SIMONE GIOSTRA & PARTNERS | PROJECTS

Completion 2008

Client Jingya Corporation

Scope of Services Architecture Design Contract Documents Construction Administration

Media Concept Mark van S. Bernardo Zavattini

Structural Engineer Ove Arup & Partners

Lighting Engineer Ove Arup & Partners

Gross Floor Area 180,000 sf

Construction Cost Confidential

Program Entertainment Center Sustainable Media Wall





Location Dumbo, New York

Project 2005

Completion 2006

Client Anna Castellani

Scope of Services Architecture Design Contract Documents Construction Administration

Gross Floor Area 25,000 sf

Construction Cost Confidential

Program New-concept "green" supermarket, offices and storage place.



P04 Castiglion del Bosco Hotel and Resort

Location Tuscany, Italy

Project 2005

Completion 2006

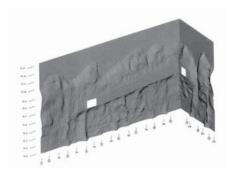
Client Faithful + Gould

Scope of Services Specifications Consultant

Gross Floor Area 45,000 sf

Construction Cost Confidential

Program Luxury Hotel and Spa



P03 Jingya Ocean Entertainment Center

Location Beijing, China

Project 2003

SIMONE GIOSTRA & PARTNERS | PROJECTS

Completion 2005

Client and Architect Atelier Raimund Abraham

Scope of Services Curtain Wall Design

Structural Engineer Ove Arup abd Partners, New York

Gross Floor Area 120,000 sf

Construction Cost Confidential

Program Entertainment center, restaurants,

commercial space, meeting spaces, theater, exhibition space

Note

The firm is engaged in the coordination of the Jingya Ocean Entertainment Center in Beijing, China, for Atelier Raimund Abraham. The firm is overseeing the implementation of a groundbreaking curtain wall technology, coordinating its structural design with Ove Arup and Partners in New York and supervising the production and installation of all components by China's local manufacturers.



P02 Pierce House

Location Cape Cod, Massachussets, USA

Project 2004

Completion 2005

Client Benita Pierce

Scope of Services Architecture Design Contract Documents Construction Administration

The building, comprised of a gym and steam room and a ground level for car

environmentally-sensitive building.

parking, plant and storage, fuses state-of-

the-art digital design tools and traditional,

indigenous building techniques to create an

Gross Floor Area 2,100 sf

Construction Cost Confidential

Program House extension

Note



S13 MOCAPE Shenzhen

Location Shenzhen, China

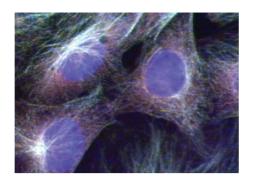
Competition 2007

In Partnership with Marchi Architects, Ove Arup & Partners, CCDI Shenzhen

Structural Engineer Ove Arup & Partners, Beijing

Gross Floor Area 850,000 sf

Program Museum of Contemporary Art, Theater, Commercial Program, Sculpture Garden



SIMONE GIOSTRA & PARTNERS | STUDIO

S12 Seoul Performing Art Complex

Location Seoul, Korea

Competition 2005

Client City of Seoul

Gross Floor Area 250,000 sf

Construction Cost Confidential

Program Theaters, performing spaces, library, restaurants, meeting spaces, park



S11 Regional Government

Location Milan, Italy

Competition 2004

Ranking Short-listed

Client Lombardy Regional Government

In Partnership with Steven Holl, Guy Nordenson, Remo Dorigati

Structural Engineer Guy Nordenson

MEP Engineer Mahadev Raman, Ove Arup & Partners

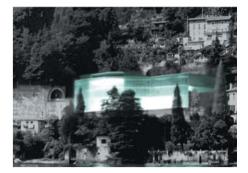
Gross Floor Area 900,000 sf

Construction Cost US\$ 180,000,000

Program Offices, commercial space, meeting spaces, theater, exhibition

Note

In 2004, the firm, in partnership with Steven Holl and Guy Nordenson, was chosen among 10 international offices, including Frank Gerhy and Norman Foster, to submit a proposal for the 160-million dollar project of the new Regional Government Headquarters in Milan.



\$10 The New Clty-Gate for Brienno

Location Brienno, Italy

Competition 2004

Client City of Brienno

Gross Floor Area 25,000 sf

Construction Cost US\$ 1,000,000

Program Parking, community facilities

Note

The new structure is a distinctly twentyfirst century interpretation of the traditional typology of the parking garage. The horizontal and vertical pedestrian circulation is organized within a multi-level, open "double-wall" overlooking the lake that exposes users to striking views while moving through the building, making the parking area a destination in its own right.



S09 New Façade for the Art Interactive Gallery

Location Cambridge, USA

Competition 2003

Ranking Honourable Mention

Client Art Interactive Gallery



S08 "Porta Aurea" Archeological Park

Location Benevento, Italy

Competition 2003

Client City of Benevento

Gross Floor Area 27,000 sf

Construction Cost US\$ 3,000,000

Program Protection of the Roman Arch, new Archeological Museum and Park

Bibliography Il progetto a Port'Aurea a Benevento, in "Architetture di Ieri nei Musei di Oggi", Cattolica University Press, Milan, 2003

Note

In 2003, the City of Benevento launched an international competition to create a new Archeological Park, where the underlying challenge was to connect fragments of the city's historic heritage, including a prominent Roman Arch perfectly preserved, by creating an identity not based on architectural typology.

The true significance of the Arch is as the "Gate" of a new cultural path; the iconic point of departure for an authentic understanding of the city's history and héritage.



S07 The New Headquarters for the Regional Government

Location Pisa, Italy

Competition 2003

Client Pisa Regional Government

Gross Floor Area 85,000 sf

Construction Cost US\$ 17,500,000

Program

Administration offices, meeting rooms and auditoriums, retail spaces, community facilities

Note

The New Seat provides the Tuscany Region with a major administrative center to respond to its growing political and financial power and allows it to become an iconic presence in the much-celebrated, and yet increasingly-corrupted, Tuscany landscape. This design proposal suggests a possible reconciliation between the traditional landscape and the ruthless urban sprawl that surrounds the site by combining a traditional hillside, re-invented within the given site, and the building program which is placed in the new topography.

SIMONE GIOSTRA & PARTNERS | STUDIO

Note

The Art Interactive Gallery sought a new façade to announce its presence and mission to the city community, with a cost for materials not to exceed US\$2000. A new skin wrapping the whole gallery was proposed, using the nylon fabric employed in construction scaffolding.



Savona Waterfront **S06** Feasibility Study

Location Savona, Italv

Competition 2002

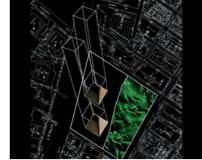
Ranking Honourable Mention

City of Savona

US\$ 4.000.000

Program

Urban design for a new pedestrian and



World Trade Center Memorial **S05** Site Study

Location New York City, USA

Study 2001

Gross Floor Area 6,000,000 sf

Program

Memorial, Downtown Park, commercial offices, retail spaces



S04 New Square and Civic Center

Location Arezzo, Italv

Competition 2001

Client City of Arezzo

Gross Floor Area 75.000 sf

Construction Cost US\$ 12.000.000

Program New Square, Public Library, 1,500-seat Auditorium, Hotel, Civic Center

Note

Responding to a call for design proposals by a renowned Art Gallery in Manhattan, the firm contributed a visionary proposal for the future of the World Trade Center site. The design begins with the acknowledament that the entire WTC site is a sacred precinct that should be dedicated to renewing the spirit and the guality of life in Lower Manhattan.

The final shadows cast by the two towers, based on the angles of the sun at the last moments before each fell, cuts two oblique voids through the bedrock, forming the memorial. These voids and the resulting light employ the synergy of the different programs to create a new identity, determining the overall character of the WTC site and defining its attraction.

Note

The site appears as the undeveloped rear elevation of a fragmented urban block within the city wall of Arezzo. Our proposal uses the 75,000 sf programmatic injection to redefine the notion of open public space: an urban "room" for the city generated by a 24-hour library and theater and amplified by commercial and cultural programs. Rather then creating a conventional plaza defined by a continuous curtain of public and commercial buildings, the program is placed on the entire extension of the plaza and unified by a large roof acting as an urban deck, thus creating an extraordinary new kind of public space.

SIMONE GIOSTRA & PARTNERS | STUDIO

Client

Construction Cost

commercial area at the city waterfront

Note

The firm's Savona Waterfront Master Plan consists of a duplication of the existing site along the water in response to the progressive and menacing occupation of public soil by unlawful parking. The new space will contain a "virgin" site dedicated solely to leisure and sport activities. The "high walk" unfolds a double-deck supported by a band of new programs and functions related to the waterfront activities that guide and attract visitors.



S03 Audiovisual Lab Leipzig Academy of Visual Arts

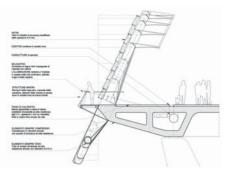
Location Leipzig, Germany

Competition 2001

Ranking Short-listed

Client Leipzig Academy of Visual Arts

Program Exhibition space, administrative offices, multimedia room, research lab



S02 Pedestrian bridge

Location Rome, Italy

Competition 2000

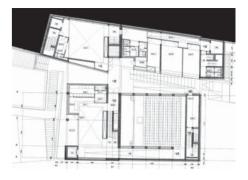
Ranking Selected Project

Client City of Rome

Structural Engineer Ove Arup & Partners, New York

Construction Cost US\$ 1,500,000

Bibliography "Icarus Wing" in: "Due ponti pedonali sul Tevere", Alinea, Rome,1999



S01 Center for Medieval Art Site Proposal

Location Assisi, Italy

Project 1995

Client City of Assisi

Gross Floor Area 42,000 sf

Program

The Research Institute is comprised of offices, classrooms, conference room and library. The Museum includes exhibition space, auditorium, cafeteria and storage

Note

This award-winning design proposal combines the mandatory connection of the new volume to the street via fire stair and elevator with the formulation of a "narrative façade". The activities within the building are broadcast on the projection plane of the building envelope, much like the front of medieval churches would represent the story of mankind, acting as the interface between the "enlightened" inner users and the outer local community.

Note

The "Icaro's wing" bridge is the result of a creative collaboration between the firm and engineers at Ove Arup and Partners in response to one of the most popular international competitions held in Italy in recent years. This is an uncompromised, adventurous declination of the suspended bridge, resulting in a profile that is both structurally clear and formally mysterious.

Note

The Center's footprint blends into the uninterrupted fabric of the city by adopting the scale of the adjacent buildings, interconnecting with neighboring sites and ensuring a seamless urban integration. The complex of museum, auditorium and research facilities appears solid and fortified, reinforcing the image of dignity and sobriety. Like all successful civic architecture, these buildings suggest permanence.

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