

STUDIO DANIEL LIBESKIND, ARCHITECT, LLC WITH ARUP

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EXPRESSION OF INTEREST

ARCHITECTURAL DESIGN COMPETITION , NEW BUILDING FOR THE FACULTY OF ARCHITECTURE, BUILDING AND PLANNING
VIA ONLINE UPLOAD
May 1, 2009

It is with great pleasure and excitement that Studio Daniel Libeskind respond to your Call for Expressions of Interest for the University of Melbourne Architectural Design Competition for the New building for the Faculty of Architecture, Building, and Planning. We consider it an honor to have the opportunity to work on such a meaningful project. Our Studio is involved in an exciting array of architectural projects across the world, that have formed the basis of our practice and we're enthusiastic about the potential for the University of Melbourne and its surrounding area.

Daniel Libeskind believes that architecture today is the most important symbol for a city and its academic, cultural and public life. SDL is capable of designing and delivering a project of this type as shown by the following criteria exhibited in this Expression of Interest. We have included projects ranging from concept to completion as our concrete examples of said capabilities. We emphasize our design philosophy and architectural approach within these examples.

Our interest is to design a unique building in an economically responsible manner. The project will provide a new learning environment that will demonstrate the best that each of the professions represented by the faculty has to offer. It will be an outstanding work of architecture, in both appearance and performance; it will be an outstanding work of urban design, activating and connecting to the campus and its community; it will use advanced construction, structural and servicing techniques, it will demonstrate integrated design between the natural and built landscape in and around the building. The building will also communicate ongoing work in each of these professions by enabling completed and in-process work of staff and students to be highly visible, as well as being enlivened by regular discussions, exhibitions and displays of contemporary and historical work.

We sincerely hope that we will be given the opportunity to personally convey our commitment, passion and enthusiasm for this project.

Sincerely Yours,
Lynn Krogh
Director of Public Relations

STUDIO BACKGROUND

Daniel Libeskind established his architectural studio in Berlin, Germany in 1989. Upon winning the World Trade Center design competition in February 2003, Studio Daniel Libeskind (SDL) moved its headquarters to New York City. The office is now headquartered two blocks south of the original World Trade Center site.

Since 1990, the office has been fortunate to be involved in a diverse array of urban, architectural, and cultural projects. The office has won commissions for major cultural buildings and significant urban projects in Germany, Switzerland, Denmark, Dubai, the Netherlands, the United Kingdom, Ireland, Italy, Canada, the United States, Japan, Spain, Israel, Mexico, Korea, Singapore and China. Daniel Libeskind's architecture continues to reflect his profound interest and involvement in philosophy, art, music, literature, theater and film, and a continuing commitment to expanding the horizons of architecture and urbanism.

It is fundamental to Daniel Libeskind's thinking and motivation that buildings and urban projects are crafted with perceptible human energy and that they speak to the larger cultural community in which they are built.

The New York office has an average permanent staffing of 70 persons. SDL has European partner offices based in Zürich, Switzerland and Milan, Italy. In addition, the Studio has established site and partner offices with personnel around the world, including San Francisco, Denver, Bern, Toronto and Hong Kong, bringing the total number of worldwide employees to roughly 140 persons.

The office has extensive resources and experience in computer aided design, with Macintosh and PC computer workstations used to produce 2D and 3D presentation materials, working drawings, and construction documents. The office uses email and FTP sites to furnish design documents to consultants all over the world and maintains a video conferencing facility. Complementing this, traditional drawing and model-making techniques are extensively employed at all stages of the design process to visualize and develop important aspects of the designs. In particular, a comprehensively equipped workshop, with facilities for the production of high-quality presentation models and mock-ups, functions as a key resource in the development and realization of the Studio's designs.

DESIGN TEAM

STUDIO DANIEL LIBESKIND

DANIEL LIBESKIND, B.ARCH. M.A. BDA AIA is an international figure in architectural practice and urban design. He is well known for introducing a new critical discourse into architecture and for his multidisciplinary approach. His practice extends from building major cultural and commercial institutions - including museums and concert halls - to convention centers, universities, housing, hotels, shopping centers and residential work. He also designs opera sets and maintains an object design studio.

Born in postwar Poland in 1946, Mr. Libeskind became an American citizen in 1965. He studied music in Israel (on the America-Israel Cultural Foundation Scholarship) and in New York, becoming a virtuoso performer. He left music to study architecture, receiving his professional architectural degree in 1970 from the Cooper Union for the Advancement of Science and Art in New York City. He received a postgraduate degree in History and Theory of Architecture at the School of Comparative Studies at Essex University (England) in 1972.

In 1989, Mr. Libeskind won the competition for the Jewish Museum Berlin, which opened to the public in September 2001 to wide public acclaim. The city museum of Osnabrück, Germany, The Felix Nussbaum Haus, opened in July 1998. In July 2002, the Imperial War Museum North in Manchester, England opened to the public. Atelier Weil, a private atelier/gallery, opened in Mallorca, Spain in September 2003. The Graduate Student Centre at the London Metropolitan University opened in March 2004, and the Danish Jewish Museum opened in Copenhagen in June 2004. Tangent, an office tower for the Hyundai Development Corporation, opened in Seoul, Korea in February 2005, Memoria e Luce, a 9/11 memorial in Padua, Italy opened on September 11, 2005 and the Wohl Centre, Bar Ilan University, Tel Aviv, Israel; opened in October, 2005. The Frederic C. Hamilton building, Extension to the Denver Art Museum, alongside the Denver Museum Residences, in Colorado, opened in October 2006, The Extension to the Royal Ontario Museum, Canada, opened in June of 2007, and the Glass Courtyard, an extension to the Jewish Museum Berlin, which covers the original Courtyard, was completed in the Fall 2007. Most recently, the Ascent at Roebing's Bridge, a residential high-rise in Covington, Kentucky opened in March 2008. The Contemporary Jewish Museum in San Francisco, California opened in June 2008 and Westside, the largest shopping and wellness center in Europe opened in October 2008, in Bern, Switzerland.

Several of Mr. Libeskind's projects are currently under construction, including: the Military History Museum in Dresden, Germany; Haeundae Udong Hyundai l'Park in Busan; the L Tower and Sony Centre for the Performing Arts in Toronto, Canada; the Grand Canal Performing Arts Centre and Commercial Development in Dublin, Ireland; CityCenter, a retail complex, on the Las Vegas Strip in Nevada; the redevelopment of the historic Fiera Milano Fairgrounds in Milan; Zlota 44; a residential high rise in Warsaw, Poland, and a grand piano design for Schimmel Piano is currently in production. Upon winning the World Trade Center design competition in February 2003, Daniel Libeskind was appointed as master plan architect for the site in New York City. Memory Foundations is now under construction.

Mr. Libeskind has many other projects in design and planning, such as The New Center for Arts and Culture in Boston, Massachusetts; New Songdo City, in Incheon, South Korea; a waterfront, residential development, Reflections, in Keppel Bay, Singapore; Editoriale Bresciana Tower in Brescia; and Orestad Downtown Master Site Plan, in Copenhagen, Denmark, which is a 5km development zone; a redevelopment site in Belgrade, Yugoslavia; a building at Leuphana University in Luneburg, and two residential towers in Tel Aviv and Jerusalem.

Mr. Libeskind has taught and lectured at many universities worldwide. He has held such positions as the Frank O. Gehry Chair at the University of Toronto, Professor at the Hochschule für Gestaltung, Karlsruhe, Germany, and the Cret Chair at the University of Pennsylvania, and the Louis Kahn Chair at Yale University. He has received numerous awards, including the 2001 Hiroshima Art Prize - an award given to an artist whose work promotes international understanding and peace, never before given to an architect. He was awarded the 1999 Deutsche Architekturpreis (German Architecture Prize) for the Jewish Museum Berlin; also the 2000 Goethe Medallion for cultural contribution; in 1996 the American Academy of Arts and Letters Award for Architecture and in the same year the Berlin Cultural Prize; in 1990 a membership in the European Academy of Arts and Letters; in 1997 an Honorary Doctorate from Humboldt Universität, Berlin; also in 1999 an Honorary Doctorate from the College of Arts and Humanities, Essex University, England; in 2002 an Honorary Doctorate from the University of Edinburgh and an Honorary Doctorate from DePaul University, Chicago, and in 2004, an Honorary Doctorate from the University of Toronto. Two of Mr. Libeskind's buildings won RIBA Awards in 2004, the London Metropolitan University Graduate Centre and the Imperial War Museum North, the latter of which was also nominated for the Stirling Prize. Also in 2004, Mr. Libeskind was appointed the first Cultural Ambassador for Architecture by the U.S. Department of State, as part of the CultureConnect Program. In 2005 Daniel Libeskind was awarded the Building of the Year Award for the London Metropolitan University by the Royal Fine Arts Commission, as well as the American Architect Award for the Danish Jewish Museum, and the Giants of Design Awards from the Hearst Corporation and House Beautiful. In 2006, the Wohl Centre was awarded the Riba International Award. In 2007, Daniel was awarded the Trebbia European Award, the Gold-Medal for the Architecture at the National Arts Club, the Silver Award for "Large Visitor Attraction of the Year" honoring the Imperial War Museum North, the Second Penn State IAH Medal for Distinguished Contribu-

tions to the Public Advancement of Arts and Humanities, the Award of Merit for innovative steel design for the Royal Ontario Museum, and the Commander's cross of the Order of Merit at the Residence of the Consul General of Germany. Most recently in 2008, Daniel Libeskind has been awarded the Annual Project of the Year Award for the Ascent at Roebing's Bridge by the Midland Engineering Company, the CNBC Europe and Africa Property Awards in categories of Architecture, Redevelopment, High-Rise Architecture, and High-Rise Development to ORCO Property Group, the Doctor Scientiarum Honoris Causa awarded by the Technion Honorary Doctoral Ceremony, the CNBC Americas Property Awards for the Ascent at Roebing's Bridge, and the AIA New York and the Center for Architecture Foundation presented Studio Daniel Libeskind with the 2008 President's Award. Daniel Libeskind's work has been exhibited extensively in major museums and galleries around the world and has also been the subject of numerous international publications in many languages.



CARLA SWICKERATH is Chief Executive Officer and a Principle Architect for Studio Daniel Libeskind. Prior to studying architecture, she received a BA in English and a BA in the History of Art from the University of Florida. She gained her MArch from the University of Michigan in 1999, and has worked for Studio Daniel Libeskind for 7 years. She has been involved in all aspects of the office and has led many competition teams, including the competition for the redevelopment of the World Trade Center Site in New York City, The Royal Ontario Museum in Toronto, the Extension to the Denver Art Museum, among others. Ms. Swickerath acts as a project manager with a particular focus on liaising with clients and client representatives and managing project schedules and contractual issues. Ms. Swickerath is leading the complicated WTC development process. Currently Ms. Swickerath is the project manager for a retail complex under construction in Las Vegas, Nevada and the Contemporary Jewish Museum in San Francisco, California, which opened in June 2008.



STEFAN BLACH is a Principal and an Architect for Studio Daniel Libeskind with over 20 years of experience. He received his Diploma in Architecture from the Technische Universität Berlin in 1991. From 1984 to 1992, he gained professional experience working with various architectural offices including Tim Heide's office in Berlin and Salvador Perez Arroyo's office in Madrid. He also worked independently as an architect from 1988 to 1996. Since 1992, he has worked at Studio Daniel Libeskind, and has played key roles in many of the major projects. Mr. Blach worked on the Jewish Museum Berlin, which opened in 1999, as one of the lead architects of the project team. He also acted as Project Architect for the Extension to the Victoria and Albert Museum in London and the Contemporary Jewish Museum San Francisco. Mr. Blach became an Associate of the Studio in 1999. He is responsible for the coordination of the design team and the management of project schedules and contractual issues, and also acts as a liaison for client representatives for the WTC redevelopment and Westside project in Brunnen, Switzerland.

ARUP

INTRODUCTION

Arup in the Americas is an integral part of the Arup Group Ltd, one of the world's largest independent engineering firms. Established in 1946, Arup has grown into an international group of multi-disciplinary practices with over 10,000 staff in 92 offices in 37 countries. The firm was established in the US in 1985 to provide the multi-disciplinary service that embodies the Arup philosophy and design approach.

ARUP IN AUSTRALIA

For more than 40 years, Arup has worked in partnership with its clients as a key contributor in the development of Australia. Arup came to Australia in 1963 to undertake the structural design of the Sydney Opera House. We have been in Singapore since 1968, and have developed a diverse practice through a wide range of projects for public and private clients. Today, Arup in Australia is a multidisciplinary practice offering services across Australia, New Zealand, South East Asia and the Pacific. We have more than 1,300 staff comprising engineers, planners, project managers and a diverse range of consulting specialists. Arup's breadth of experience equips us to draw together key players from around the globe to bring the best possible team to any given project. Globally, as a part of the Arup Group, we are more than 10,000 strong, operating out of 92 offices in 37 countries.

TOTAL DESIGN

Engineering disciplines are integrated to provide clients and architects with a coordinated service from a project's inception through to completion. The objectives are to contribute fully at the conceptual stage of a project, to ensure that the relevant engineering considerations and options are properly exposed to the owner and architect, and to ensure that the design is developed in a well-coordinated manner. Total Design is undertaken by multi-disciplinary project teams, led by a principal-in-charge and a project manager, and including senior and supporting staff in each discipline required. The key project staff form an effective unit accustomed to working together as a team. Each team is responsible for handling its projects from inception to completion, thus ensuring full continuity.

HIGHER EDUCATION

Arup understands the special needs of the campus. Arup brings a depth of experience in delivering the spectrum of project types found on the education campus, including academic, dormitory, performance spaces, laboratory, galleries, libraries, sport, transportation facilities and central plants. Arup also delivers services across the total life of these projects from needs assessment, capital planning, master planning, design, construction, commissioning, and post occupancy support. Arup recognizes that the fundamental purpose of the education campus is to teach. With this recognition comes a deep seated belief that through good design, Arup can contribute to the creation of better learning environments.

Arup has been involved in the design of educational facilities for 40 years. Projects undertaken range in scope from renovation of private institutions to the design of new world class facilities requiring fully integrated multidisciplinary teams. We have also worked with artists and exhibit designers on individual pieces and exhibits.

Designing and executing projects around the world with the invaluable input of our clients has given us a wealth of experience. Today Arup offers a broad spectrum of consulting services allowing us to provide almost all the technical design services required to successfully complete projects. We carefully identify the client's criteria for success, design the means for achieving it and provide skills and management expertise for effective project implementation.

THE ACADEMIC ENVIRONMENT

As demonstrated by the projects we include in this EOI, this new building will provide an inspiring work environment for all staff, and in particular, will facilitate high quality research outcomes from academic staff and Research Higher Degree (RHD) students. The academic work environment will provide a range of opportunities from quiet, individual research to collaborative work with other academics and with RHD students. The building will play an essential part in the Faculty's goal of attracting and retaining the best staff and allowing flexibility and choice in work styles.

The new building will provide an outstanding teaching and learning environment for all staff and students. It will provide a range of formal and informal teaching and learning spaces, encouraging interaction between students from all year levels, while still providing acoustic and visual privacy to enable work to proceed without interruption where necessary. Teaching and learning spaces will be based on advanced theories of studio and classroom design, addressing the role of technology, staff-student interaction and work styles in their layout, furnishings, and equipment. Studio is seen as the focus of student learning, the place of immersion in professional culture driven by experiential learning and global engagement in relevant social issues.

The building will demonstrate outstanding performance in the design and on-going operation of its environmental systems. It will use the best available techniques and technologies for sustainable design, and for the use of materials, energy, air and water. The building will also act as a laboratory, providing opportunities for staff and students to control, adjust and monitor environmental systems such as sun-shading or natural ventilation. The building will take advantage of local climate conditions to resourcefully provide high levels of occupant comfort, which will be evident through changes in the internal environment or to the external fabric. Internal spaces will be adaptable and flexible, but still have access to high quality natural light, ventilation and acoustics.

CAPABILITY AND PROCESS

As aforementioned, SDL and ARUP have completed projects of this size, scale, and type. Schedule is a huge factor in all the projects and a highly prescriptive time schedule will be an inherent part of the brief for realization. Once such a schedule is fixed from the outset and agreement is secured with the whole Design Team and Construction Manager or Main Contractor, it is broadly matter of each associated company staging the job in a manner to achieve their respective deliverables on time. With any given project, SDL expects varying sources of time management demands, for example: Client brief/spending pattern requirements, Client's Project Manager's schedule, Construction Manager schedule and varying site conditions during construction, taking account of differing construction forms.

Another important factor for all projects is cost. Studio Daniel Libeskind expects to work with a cost control strategy that builds and develops throughout the project work stages. Within the Pre-Schematic and Schematic Design phases, the value is in having a clear and strong elemental cost plan. This allows the following for both the principal material decisions to be made in conjunction with the emergent form and confirmation of where funds are needed relative to Client financing packages and project cash flow predictions.

PROCESS FOR EACH SEGMENT OF THE PROJECT

Pre-Schematic Design:

- Research and context specific gathering of information on site
- Collaborative workshops with the Clients to understand and advise the program requirements and architectural aspirations
- Intensive period of design and model building in our Studio
- Formal reporting of drawings, renderings, models, and outline cost estimate

Schematic Design:

- On the basis of Client Pre-Schematic Design approval
- Development of outline design, again in close collaboration with all Clients
- Studio Daniel Libeskind's Project Manager ensures liaison with local governing bodies and secure permissions in liaison with Clients
- Deliveries to Client include comprehensive plans, sections, elevations, renderings, models outline specification and cost report

Design Development:

- On the basis of Client Schematic Design approval
- Large scale study models enable architectural development and engineering/environmental modeling for use in working with

Construction Managers and Sub-contractors

- Formal reporting to include running costs to Client
- Close working relationship with Client body to ensure detail of scheme provides optimal functioning of program
- Deliverables to include more detailed specifications and finishes, large scale layout plans, typical details and cost report

Construction Documents:

- On the basis of Client Design Development approval
- All Construction Documents produced by team at Joint Venture office close to ensure that they are produced in close connection with the local city laws, technical requirements while working with the contractor
- Production in close coordination with Construction Manager

Construction Administration:

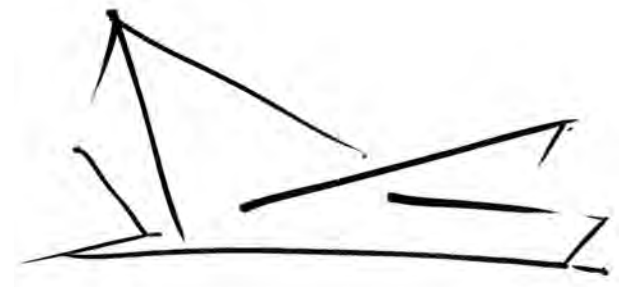
- Contract Administration undertaken
- SDL ensure complimentary and constant design supervision

STUDIO DANIEL LIBESKIND RELEVANT PROJECTS

LONDON METROPOLITAN UNIVERSITY GRADUATE CENTRE
LONDON, ENGLAND



Elevation from Northeast



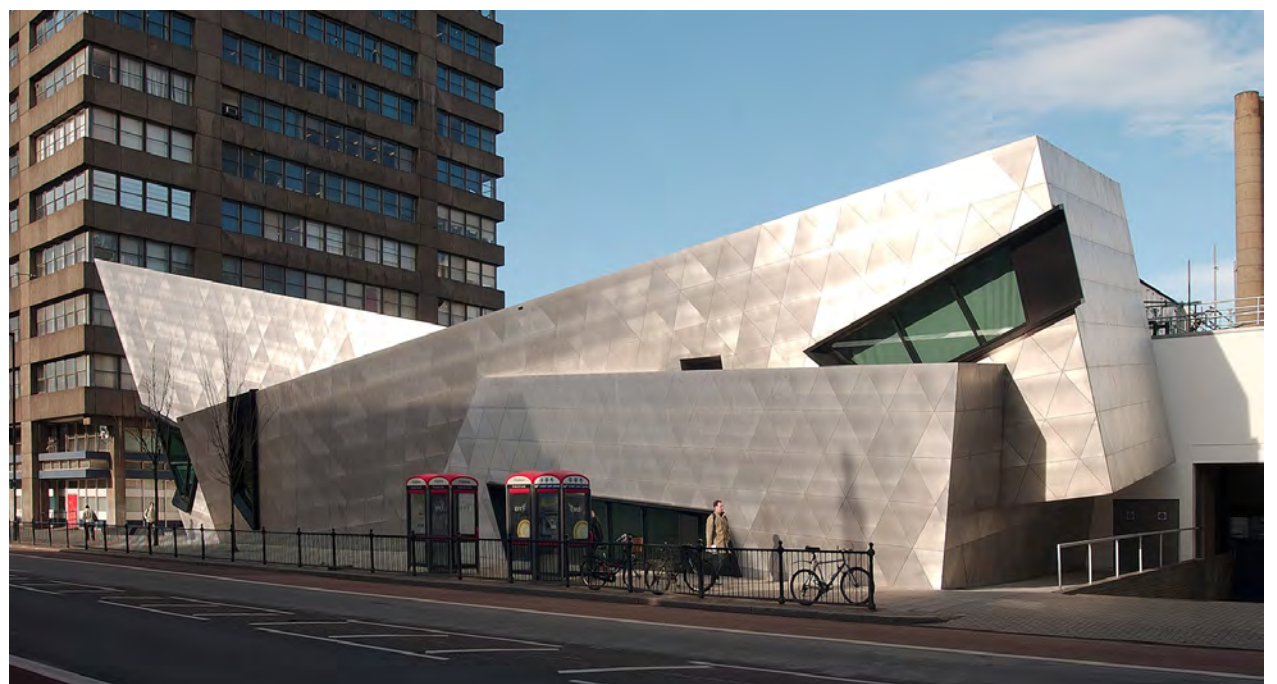
Sketch

The Graduate Student Centre for the London The Metropolitan University is a small building dedicated to the growing graduate population and is placed as a major gateway to the University on Holloway Road.

The building, which opened in March of 2004, promotes postgraduate identity through the provision of facilities to enhance the staff and student experience of graduate educations. It also encourages and facilitates cross-university collaboration at postgraduate level.

Even though it is a small project with a modest budget, the new development is vital to the University and greatly enhances student life as well as the local surroundings.

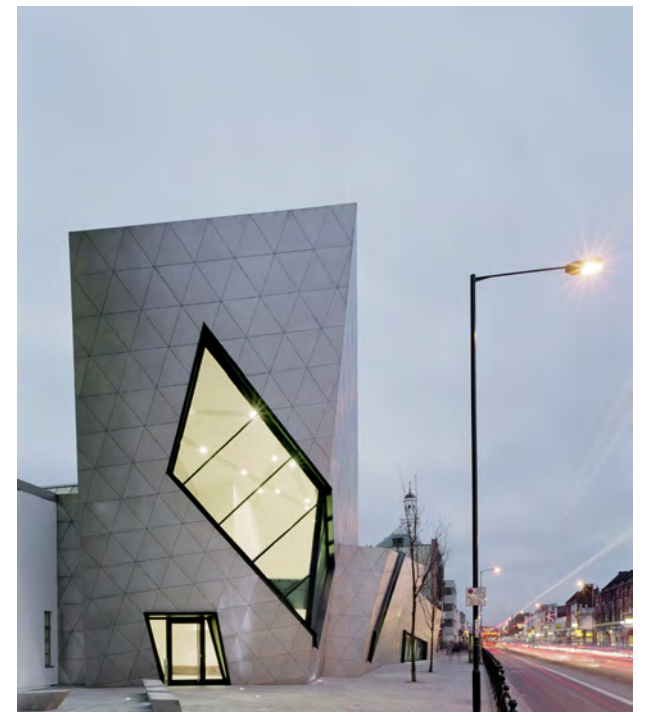
The University argues that top quality design can greatly improve the educational experience for the students as they feel valued and enjoy learning in high-quality surroundings.



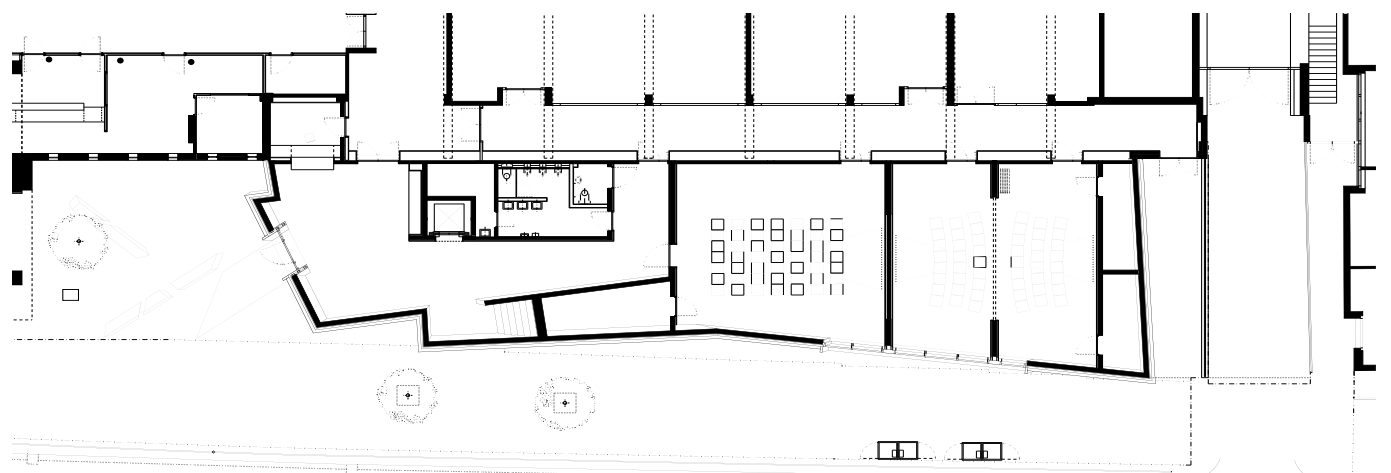
Elevation from the Southwest

PROJECT DATA:

Principal Architect:	Daniel Libeskind
Project Architects:	Wendy James, Jean-Lucien Gay
Services Provided:	Complete Architectural (RIBA)
Building Area:	10,000 sq.ft.
Construction Budget:	\$5.1 Million
Final Construction Cost:	\$5.6 Million
Owner Scope Change:	\$350,000
Time of Award:	2001
Starting Date:	2002
Completion Date:	December 2003
Awards:	RIBA Award 2004, The Royal Fine Arts Commission Trust, Building of the Year
Client:	London Metropolitan University
Contact:	Brian Roper, Vice Chancellor Tel. +44 207 133 2001
Contractor:	Costain
Contact:	Mark Hyam Tel. +44 123 583 8648
Principal:	Wendy James
Design Team:	Jean-Lucien Gay, Chad Machen, Robert Hirschfield, Anne Markey
Project Management, Planning Supervision:	Robinson Low Francis
Structural Engineer:	Cadogan Tietz
Mechanical/Electrical/Plumbing Engineer:	WSP Group
Cost Estimation:	Gleeds
Contractor:	Costain



View from Holloway Rd.

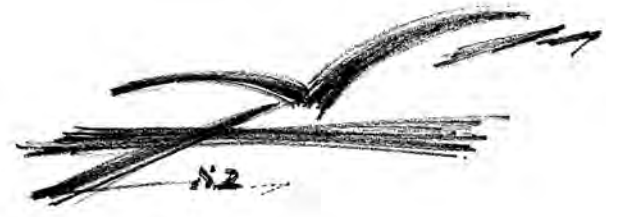


Ground Floor Plan

THE WOHL CENTRE
BAR-ILAN UNIVERSITY, RAMAT-GAN, ISRAEL



Aerial View of the Centre



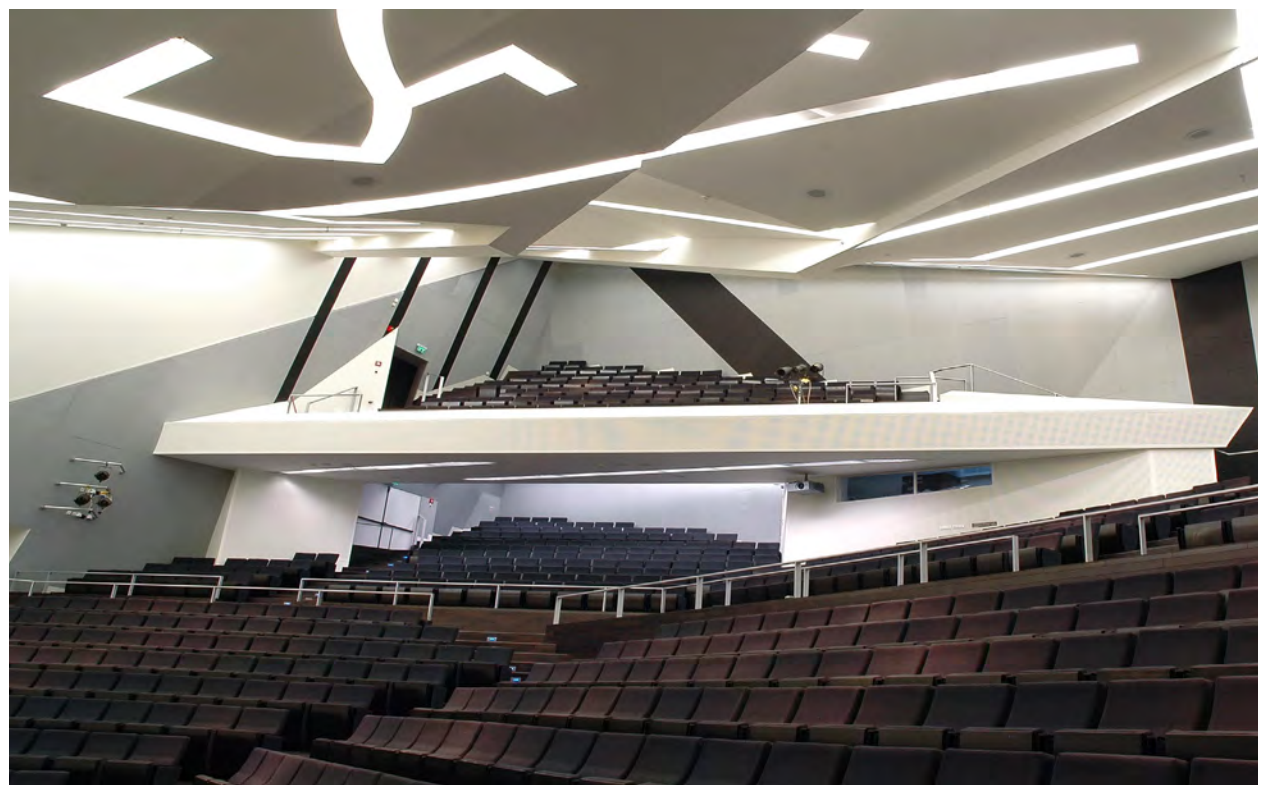
Sketch

Voices and its Echoes stands for the focal point which brings together the two essential components of the Bar-Ilan university: the secular and the sacred. Apparent in the form of the building is the interrelation between the dynamics of knowledge and the unifying role of faith.

The exciting form of the auditorium, lobbies, seminar rooms and public spaces are penetrated by the "labyrinth of letters" in which an ancient constellation of hierarchies is made visible. The functional volumes of program and the subtle enigma of light are carefully adjusted to create a space full active and meditative atmosphere.

The entire building functions as a dynamic ensemble which through its flexibility of usage can function equally intensively during the day or the night. The building's exterior is homogeneous in form, built in stone and metal, penetrated by the projections of the labyrinth of letters which defines and organizes the glazing and indirect light.

The building stands on a critical crossroad in the campus and opens a dialogue between the university and its neighbors. As such, Voices and its Echoes is a gateway and beacon for the students, faculty, guests and public of the 21st Century.



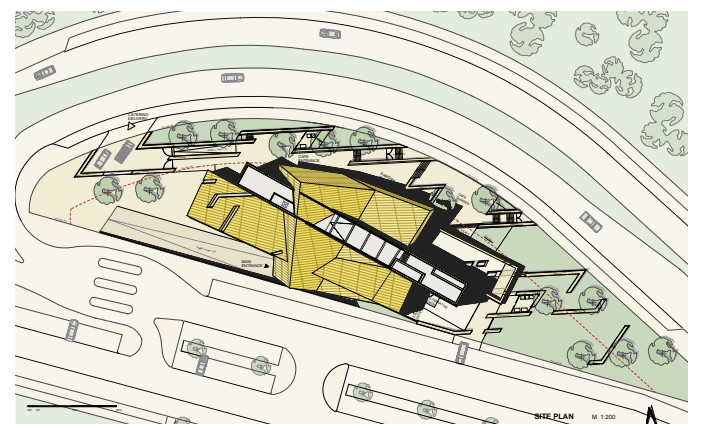
Auditorium

PROJECT DATA:

Principal Architect:	Daniel Libeskind
Project Architects:	Michael Brown, Gerhard Brun
Services Provided:	Complete Architectural
Building Area:	38,000 sq.ft.
Auditorium Seating:	910 Seats
Construction Budget:	\$6.5 Million
Final Construction Cost:	\$6.5 Million
Owner Scope Change:	N/A
Starting Date:	October 1999
Awards:	RIBA International Award 2006
Completion Date:	October 2005
Client:	Bar-Ilan University
Contact:	Moshe Kaveh, President Tel. +972.3.931.4145
Contractor:	Ortam-Sahar Ltd.
Contact:	Hanan Horowitz Tel. +972.3.613.0073
Principal:	Stefan Blach
Design Team:	Gerhard Brun, Michael Brown, Marian Chabrera, Robert Hirschfield, Thomas Willemeit
Architect of Record:	TheHeder Architecture
Project Management:	Vinko Yeeffet
Structural Engineer:	Josef Kahan & Partners
Mechanical/Sanitary Engineer:	Ben-Zvi Consulting Engineers
Electrical Engineer:	Shalom Ozer
Acoustical Engineer:	Abraham Melzer and Uzi Livni
Safety and Fire Protection Consultant:	Shmuel Netanel Eng. Consultants
Lighting Consultant:	Dinnebier Licht
Theater Consultant:	Braslavi Architects
Waterproofing Consultant:	Michael Morton Eng.
Air Conditioning and Sanitary Engineer:	Moshe Ben Zvi Consulting Eng.
Cost Estimation:	Eli Golding



View of West Elevation

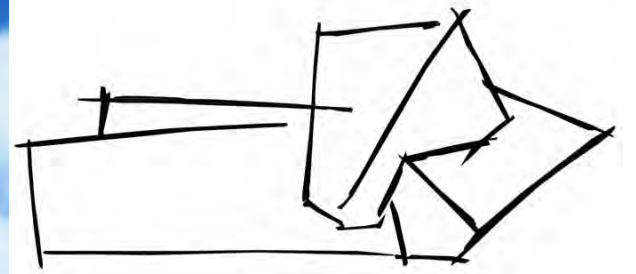


Site Plan





Front View



Sketch

The Creative Media Centre for the City University of Hong Kong provides facilities which will enable the University to become the first in Asia to offer the highest level of education and training in the Creative Media fields. In addition to the School of Creative Media, the Centre will also house the Centre for Media Technology and the Department of Computer Engineering and Information Technology.

The distinctive crystalline design will serve as an architectural icon for the departments housed within, and will contain an extraordinary range of spaces rich in form, light, and material that, together, will create an inspiring environment for research and creativity. Internal spaces have been designed specifically to encourage collaboration through an openness and connectivity of activity area. It will also provide an exciting place for visitors, who will be welcomed to enjoy the facilities as part of an extended public outreach program of courses and events. Secluded landscaped gardens to the north of the building will be available for students and public alike.

Accommodations include a multi-purpose theatre, sound stages, laboratories, classrooms, exhibition spaces, and a café and restaurant.



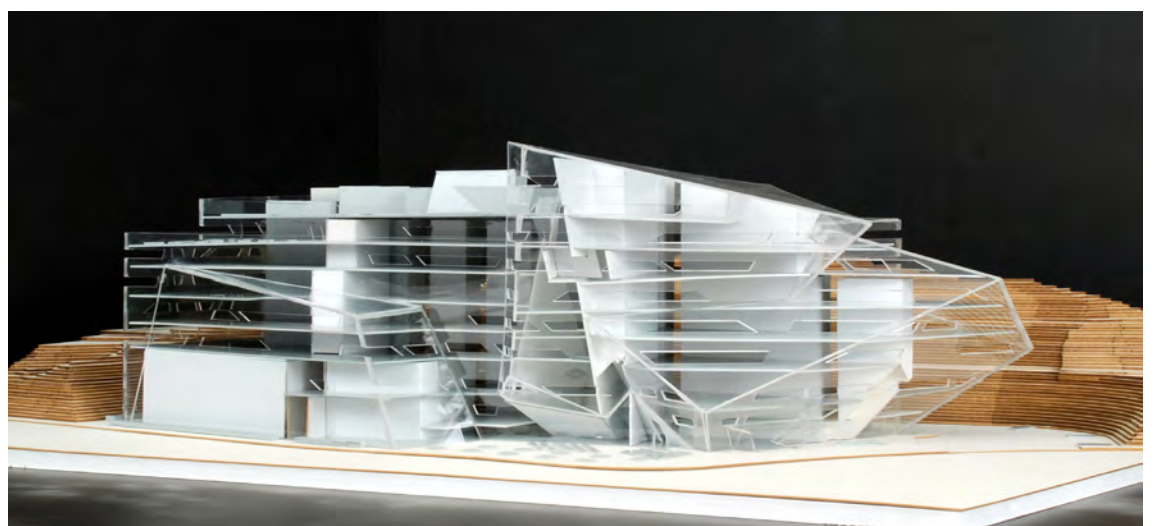
Section

PROJECT DATA

Principal Architect:	Daniel Libeskind
Project Architects:	Wendy James, Eric Sutherland, Joy Cardillo, Laphan Fan
Services Provided:	Complete Architectural
Building Area:	327,500 sq.ft.
Total Budget:	\$100 Million
Construction Cost:	\$70.5 Million
Time of Award:	2002
Scheduled Completion:	2009
Client:	City University of Hong Kong
Contact:	Sam McBride Tel. +852 3 442 6870
Principal:	Eric Sutherland, Wendy James
Competition Team:	Martin Ostermann, Simon Dittmann, Philipp Utermoehl, Gerhard Brun, Michael Brown, Bahadir Parali
Design Team:	Joy Cardillo, Ka Wing Lo, Sean Ellis, Laphan Fan, Susanne Milne, Tomoro Aida, Taek Kim, Donald Shillingburg, Sarah Nichols, Jennifer Russell
Joint Venture Partner:	Leigh & Orange
Structural Engineer:	ARUP (London/Hong Kong)
Mechanical/Electrical/Plumbing Engineer:	ARUP
Geotechnical/Civil Engineer:	ARUP
Landscape Architect:	ADI Limited
Facade Consultant:	ARUP
Fire Protection Consultant:	ARUP
Lighting Designer:	ARUP
IT and Communications, Audiovisual, Acoustics:	ARUP
Site Formation:	Kaden Construction Co.
Town Planning:	EDAW
Cost Estimation:	Levett and Bailey
Contractor:	China Resources Construction



Lobby and University Stairs



Longitudinal Section

Awards

2008

- Award of Merit by the AIA New York Building Type Awards for the Museum Residences
- AIA New York and the Center for Architecture Foundation present Studio Daniel Libeskind with 2008 President's Award
- CNBC Americas Property Awards 2008 in categories of Best Development to the Museum Residences and Best High-Rise Development to the Ascent at Roebling's Bridge
- CNBC Europe & Africa Property Awards 2008 in categories of Architecture, Redevelopment, High-Rise Architecture and High-Rise Development for Zlota 44

2007

- The Commander's cross of the Order of Merit at the Residence of the Consul General of Germany
- Gold medal for Architecture at the National Arts Club
- Award of Merit for innovative steel design for the Royal Ontario Museum, Canada
- Merit Award for Multifamily for "The Museum Residences", Denver, Colorado, USA

2006

- RIBA International Award, for the Wohl Centre at Bar-Ilan University, Israel

2005

- Royal Fine Arts Commission Trust, Building of the Year Award, Jeu D' Esprit, for London Metropolitan University
- American Architect Award, for the Danish Jewish Museum
- Giants of Design Award, The Hearst Corporation and House Beautiful

2004

- Honorary member of the Royal Academy of Arts, London, England
- RIBA (Royal Institute of British Architects) Award, 2004, for Imperial War Museum North
- RIBA Award, 2004, for London Metropolitan University Graduate Centre
- The First Cultural Ambassador to the US for Architecture by the U.S. Department of State, as part of the Culture Connect program
- Man of the Year Award from the Tel Aviv Museum of Art, Israel
- The Cooper Union, Urban Visionary Award for Architecture, New York City

ARUP EXPERIENCE



John Wardle Architects & Wilson Architects

Queensland Brain Institute, St Lucia, Queensland, Australia

Client: University of Queensland

Architect: John Wardle Architects & Wilson Architects

Completed 2007

Environmental assessment report, management plan and sustainability design advice for the design and construction of a new university research building at Queensland University.



Lyons Architects

University Of Western Sydney Medical School, Campbelltown, New South Wales, Australia

Client & Architect: Lyons Architects

Completed 2007

Structural, civil and facade engineering for three, 3 storey buildings housing teaching, administration and research facilities arranged around a central 'hub' space with a floating steel grillage roof.



Evor Mein

Bio 21, Melbourne, Victoria, Australia

Client: University of Melbourne

Architect: DesignInc Melbourne Pty Ltd

Award: RIAA Victorian Architecture Awards - Marion Mahony Award for Interior Architecture 2005

Capital Cost: AUS\$108 000 000

Completed 2004

Building physics, structural, facade and civil engineering for a cutting edge biotechnology discovery centre, including energy efficient solar shading and design measures to protect sensitive laboratory equipment. The building is characterised by multiple rooms that appear to float on the facade of the building, and Arup achieved this very unusual form by designing the main support of each room to be suspended from the roof, meaning there are no floor support columns.



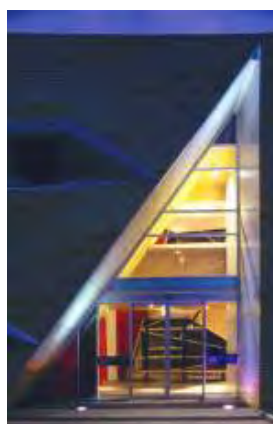
Deakin University - School Of Contemporary Arts Building, Burwood Campus, Burwood, Victoria, Australia

Client: Deakin University

Architect: Woods Bagot Pty Ltd

Completed 2004

Acoustics design for the School of Contemporary Arts Building at Deakin University's Burwood Campus. The building incorporates general and specialist teaching facilities including performance spaces, dance, video, film and sound studios. It also includes sound editing spaces and collaborative spaces. This was a particularly important role as many of the spaces are acoustically sensitive and providing the right acoustic environment was critical to ensuring the successful use of the space.



Martin Saunders Photography

School of Botany, University of Melbourne, Victoria, Australia.

Client: University of Melbourne

Architect: Lyons Architects

Completed 2003

Building services, acoustics and fire engineering design for a new School of Botany building. Services included design of the lighting system to provide a creative, cost efficient and ecologically sustainable lighting design. Working closely with the architect, Arup developed an innovative and holistic lighting scheme that utilised various colour treatments to make a visual impact on a limited project budget. The treatment of colour within the school was handled subtly. The ranges of colour temperature within the various spaces are not immediately apparent when viewed internally, but are clearly evident when the building is viewed from outside.



University of Technology Sydney, Ultimo, NSW, Australia

Client: University of Technology Sydney

Architect: Bligh Voller Nield

Capital Cost: A\$100 000 000

Completed 2002

Electrical, communications, hydraulic and fire engineering services for the fit out of all floors as part of the redevelopment of a historic building to house the faculty of IT, faculty of education and administration department for the University of Technology. Specialist input was provided on fire engineering, vertical transportation and environmental design for the atrium.

Columbia University Northwest Science Lab
New York, New York

Client: Columbia University

Design Architect: Rafael Moneo / Moneo Brock Studio

Executive Architect: Davis Brody Bond

Reference:

Irwin Lefkowitz, University Architect

Columbia University

T: 212 854 2484



Structural, mechanical, electrical and plumbing engineering, lighting and information technology for the new 180,000 sq ft lab building. One of the primary challenges of the project was to develop an architecturally exposed structural system to span the Dodge Hall gymnasium. The project also included an analysis of subway vibrations for their impact on the laboratories and the review of existing adjacent buildings to support new cooling towers.

Princeton University Chemistry Lab
Princeton, New Jersey

Client: Princeton University

Architect: Hopkins Architects

Reference:

George Olexa, Facility Manager

Princeton University

T: 609 258 6336



Structural, mechanical, electrical and plumbing engineering, acoustics, lighting, facades, and sustainability services for this new 300,000 sq ft lab building. Technical challenges of this project include the design of low vibration floors as well as the integration of facade and structural systems.

Forestry & Environmental Studies School
Yale University

New Haven, Connecticut

Client: Yale University

Architect: Hopkins Architects Ltd.

Reference:

Jerry Warren

Associate Vice President Construction and

Renovation

Yale University

T: 203 432 8407



Arup is providing structural, mechanical, electrical and plumbing engineering, lighting and acoustics services for the Forestry & Environmental Studies School at Yale, also known as the Kroon Building. It will house general teaching space, computer rooms, an auditorium, a library, academic offices and support spaces. The large open space of the top floor will include an "environmental center" which will accommodate exhibitions and events. The project has a strong sustainability agenda and is reflected in some of its features: photovoltaics on the roof, solar hot water heating, ground source heat pumps and storm water harvesting for toilet use. The project is approx 58,000sf and the construction budget is \$24m. There is also an "adjoining projects" project which comprises an underground service node to serve the Kroon Building and two existing buildings, various link passageways and landscaping.