Introduction

laura alvarez architecture is pleased to present our credentials in relation to the University of Melbourne's Architectural Design Competition for the Faculty of Architecture, Building and Planning (ABP). We propose Arup Melbourne as our collaborative engineering consultants. We are sure that the extensive experience of Arup together with our creativity, attention to detail and sensitivity for architecture will result in a building of the highest quality that in turn nurtures creativity in an innovative and inspirational environment that will be an example to those studying, researching, teaching and visiting the University.

The fact that the University of Melbourne initiated an international competition for this project is laudable, and laura alvarez architecture in collaboration with Arup would be honoured to take part in this once in a lifetime opportunity. laura alvarez architecture was recently awarded First Place among 466 entries for the International Design Competition for the New Faculty of Architecture of the Technical University of Delft, a great honour indeed, and a design experience which will prove invaluable on this project.

01 built pedagogy

LA AJ laura alvarez architecture

A reference for all disciplines

"Architecture, landscape and urban design do not have meaning without each other."

Urban and landscape design are crucial ingredients for a successful and integrated architectural design. In every project we begin with a detailed and thorough analysis of the context; both physical, global, historic and cultural as well as aspirations of the client and community of users and visitors. Our approach begins where the project is born, with in-depth analyses of the site to determine building volume and massing and just as important, the non-building or voids. These spaces create the interactive relationship of the building with its surroundings.

"The world is too much with us" William Wordsworth

Creating spaces that merge with nature by bringing natural elements into the building is important not only for uplifting the soul, but also for creating inspiration. Climate and site conditions are important considerations as to how this can be accomplished appropriately. Our experience working on international projects in very different locations and climates including Spain, The Netherlands, the UK and Malaysia provide us with extensive experience and insight in this regard.

Culture SML, Lorca, Murcia, Spain

The site is located in a marginal neighbourhood and rests on a very steep hill, located half way between the city of Lorca and a much visited 10th century castle. The site features the ruins of a 13th century Roman church which no one, no tourist and no citizen visits. Because the neighbourhood is so poor, visitors circumvent it to get to the castle, even taking a bus to do so, when going through the neighbourhood would only be a ten minute walk. Our first urban intervention to solve this challenge, mends and connects and exploits the building to create a natural and beautiful destination between city and castle, inviting the neighbours from downhill to come to the upper side, very unknown to them, and prompting castle visitors to discover the old city centre of Lorca. This provides regeneration to the area and a sense of pride to the citizens where previously none existed.

We designed a Cultural Centre, SML (Santa Maria Lorca) and also Small Medium Large where any type or size of cultural activity could take place; from a small creative workshop for residents, painting classes, exhibitions of outside or local work, or a great concert in one of its entrance squares, the venue for concerts in Spain. By embracing all of these activities in one venue, the building will inspire creativity in local residents and attract a wide diversity of people while solving the urban problematic. This model can also be used to inspire the same sort of urban solution for the numerous abandoned ruins scattered around Spain.

Innovation versus Tradition

"We take every challenge in a new project as an opportunity to innovate."

Innovation does not mean forgetting what has been done until now. History and modernity should find away to respect and accept each other. Alvarez has found for example in Spain, that air conditioning is often used to cool modern buildings, when traditionally, the patio, also more beautiful and serene, has served this purpose successfully throughout the centuries.

"Modern technology
Owes ecology
An apology." Alan M. Eddison

Traditional construction is based on principles that have been heavily argued throughout history. A fresh perspective and insight on traditional architecture gives us the necessary resources to apply, when appropriate, new techniques and materials.

Innovation is born from obtaining the best result under limited conditions. We are always faced with some limitations; time, money, space, etc., but these constraints can be translated into possibilities which shape creativity and growth.

In the case of Culture SML, our biggest limitation was the extremely low, almost non-existent, budget and the existing church ruins determined what was possible in terms of size, orientation and locations for the new spaces. Like in almost every project, this challenge served to become the inspiration for our design solution.

An example of this is the existing 1-meter thick walls of the church, which protect the interior from the extreme heat of this region. This is an age-old method of building both strength and natural cooling into the church. By re-examining this method, we were able to integrate modern techniques into the design by adding perforations into the roof, bringing natural light and ventilation, via a chimney effect, into what was once a dark and stagnant structure. By reducing the costs on building facades, we were then free to develop the double skinned roof to create airflow while maintaining a comfortable interior temperature. Sustainable design is elementary.

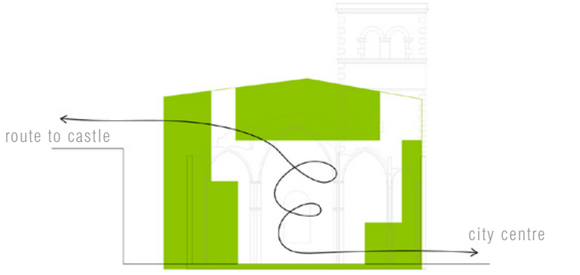


diagram showing the building as part of the cultural promenade

ARUP

Advanced Building Modelling

Arup is the clear industry leader in the field of advanced digital engineering and building modelling. They will bring to this project unrivalled geometric, building and analytical modelling skills for the benefit of design development through to construction efficiency and logistics.

Use of total building modelling allows them to 'virtually' construct and hence assess and improve coordination. Every structural element, penetration and level change will be fully resolved and all ducts, conduits and plant will be included. Drawings are one output from a model, but their advanced modelling capability means they can work from the earliest sketches with flexible parametric models, all the way to a virtual construction dress-rehearsal where they provide construction planning linking project programmes to models.

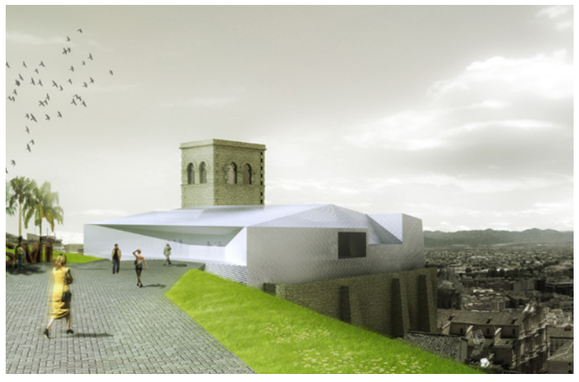
By producing a virtual model of building system components, it is possible to effectively visualise and manage design coordination, thereby improving confidence in the design and reducing the chance of late changes and clashes between building systems on site.

A Research and Education Virtual Model

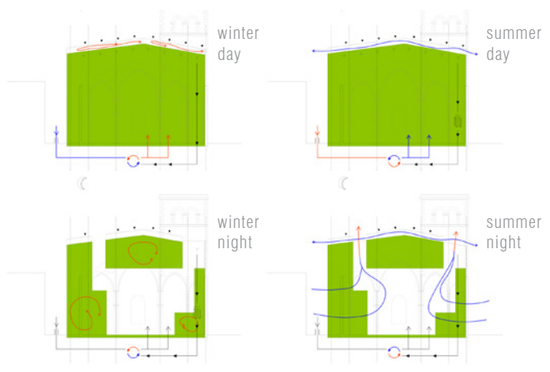
For this project, we propose to offer Arup's virtual model for research and education. This means access to their digital content through design and construction to be then used as a resource over the life of the building. This will also apply to any extended services we offer from our modelling approach, such as:

- Accurate quantity take-off and associated cost estimate
- Construction programming and phasing
- Component scheduling and direct manufacture
- Facility management and assessment.

Cultural Centre, Lorca [SP] 2008, Competition Client | Municipality of Lorca Program | exhibition space, performance space, ateliers, workshops, cafe and shop Area | 3.200 m2



LA AJ view showing building as natural destination between city and castle



LA AJ schemes of sustainability | temperature and ventilation control

LA AJ the void beween old and new as performance and exhibition space

view towards the Church Santa Maria from the city centre

LA AJ seccion showing the two entrances of the building and the diversity of spaces

02 the academic environment

LA AJ laura alvarez architecture

Light, spatial conditions and relationships with nature and the outdoors

"In every project creating inspiration, not only for art or design, but in life itself is weaved into our design."

In our commission for 180 patio residences in the city centre of Groningen, The Netherlands, we proposed to create a more family friendly and natural environment by removing parking from view, thus creating more public space and a safer place for children. By placing all the entrances and living rooms along the open public spaces, we create a more social atmosphere where appropriate as well a sense of freedom and openness for the residents. Another void within the design is the private patio, which provides outdoor spaces, which are not social, but more intimate.

For the faculty building at the TU Delft, we incorporated a circular traffic flow through the enormous space, doing away with the dead ends that previously existed. This creates a more natural experience for those using the building. With studios on the perimeter of the building facing the outdoors, natural light and views provide a more inspirational experience. Large patios not only provide much revered outdoor space and fresh air, but serve to connect the old building structures with the new. As a member of the faculty at the TU Delft, Laura Alvarez was able to deeply understand what was necessary for the new building, what would improve the quality of the education and what sorts of facilities needed improvement. A fresh look at the design brief enabled Alvarez to make improvements form the standpoint of teacher and student. This ability to immerse herself in the project context and goals for students and faculty for the TU will be a strong addition to the integral design of the ABP.

The ABP faculty building will inspire creativity and lift the soul, with openness and light and natural materials. Open areas where students can create their own art in changing displays throughout the building or ad hoc spaces will stimulate spontaneous creativity and also foster synergies among different creative disciplines. Comfortable spaces offering freedom to stay and relax and messable spaces for students to discover and express themselves artistically and socially. Natural light is crucial for a creative arts building, not only for drawing, but also for the spirit.

Flexibility of use

"The less specific the building is the easier it will be to adapt it in the future."

We believe in lasting architecture. Buildings should have the strength to adapt themselves to new requirements, conditions or functions. Building for the future does not necessarily mean designing a futuristic styled building that will look dated before their time. It is certainly more about designing a flexible building that can adapt to change, be it growing student numbers or keeping ahead of the most advanced communication and media technologies that are sometimes difficult to anticipate.

The new facility should be designed with the expectation of daily changes in addition to significant future changes and should combine programming needs with fluctuating daily occupancies, including dining, assembly, lectures, exhibitions, student activities, and services. Multi-function interior spaces can be designed to expand or contract as needed, allowing the adjacent areas to adapt to changing activities as well as provide overflow for exhibitions, events, dining or assembly. To accommodate future expansion, similar functions can be combined in adjacent spaces and program areas can be classified relative to anticipated future changes. Areas such as exhibition can be reconfigured as trends and seasons change. Conversely, spaces for meeting, informal gathering, and lectures can be designed for longevity with more durable materials.

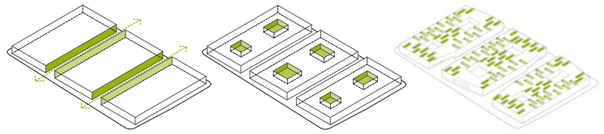
Flexibility and adaptability are necessary in most buildings, and especially in academic buildings where student populations are growing ever increasingly. Understanding the programme clearly through meetings with students and the client will provide a clearer understanding of where expansion and contraction could occur. The appropriate care should be given to the right choice of modularity and to the development of a clever technical infrastructure.
Spontaneity should be a major consideration, creating, designing and inspiration itself is often spontaneous and as students work and socialize in different ways, the building should provide enough variety and flexibility to guide them through a range of spaces that can nurture this process.

Flexibility is also a key concern for the Faculty building for the TU Delft. Because our design is interconnected, functions can easily be shifted to different areas depending on need. All the rooms are open to different functions and can easily be changed. Every function which is connected to the street are easily adaptable and interchangeable.

Our design for a social housing project in Montoro [Cordoba, Spain] is a strong example of designing for flexibility. Every dwelling needed to be configured for future adaptability and change. The challenge of this task was working with the project site; a very narrow and irregular plot that required a very pragmatic and compact solution.

We presented a proposal based on a modular system in which we could fit the different residential programmatic units. These functions are interchangeable if needed. Taking context into account, we designed the modules to provide every dwelling with a patio and a roof terrace; very important spaces for the Cordoba climate.

laura alvarez architecture received honourable mention for proposing a very simple solution that solves the problematic of the site while addressing the demanded for flexibility.



schemes showing the public and private outside spaces

Architecture for social interaction

"Architecture has the power to create communities and desegregate them."

By choosing a particular configuration of spaces, we can stimulate interaction, creating community and a sense of place.

For the design of the Faculty of Architecture building for the TU Delft, we introduced a new "street" that crosses the entire 58,000 m2 building volume, creating connectivity from end to end and providing links between the old and new sections of the complex. This street is a backbone connecting and distributing people in an efficient yet pleasant manner. The street itself is of generous size and ventures indoors and outdoors providing ad hoc spaces for social interactions with other students and staff as well as a feeling of openness as one moves throughout the building. Social interaction is also increased with the location of all the common functions, which face this zone. This includes lecture halls, exhibition space, model rooms, restaurant, bookshop, etc. The interaction obtained by this layout is essential in a Faculty of Architecture, where learning from other projects, exhibiting work, provoking relationships between students from different degree and experience levels and teachers has a crucial role.

ARUP

Arup can proudly claim to be the creative force behind many of the world's innovative and sustainable building and engineering projects.
A key differentiator is the global nature of their operations and hence, skill-base –designers, engineers and consultants provide professional services to an ever expanding group of clients around the world. In doing so, they excel at understanding and working locally.
Outstanding solutions, innovation and value characterise their work and as professional consultants, and with a vast pool of technical expertise from across the world, Arup achieves the best possible results for clients on any project.
Their maxim – we shape a better world – captures their creativity, drive for sustainability and the global nature of the firm.

programatic units

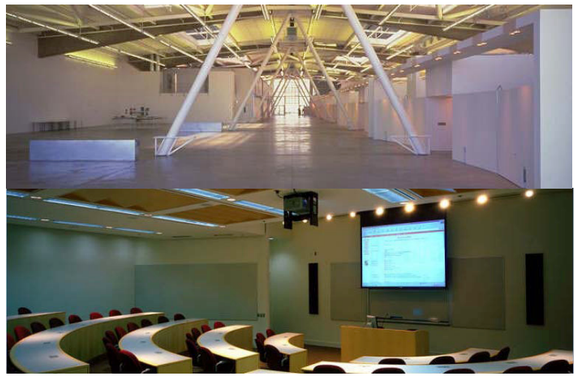
180 patio houses in Groningen [NL] 2008, Preliminary Design Client| Municipality of Groningen Area | 25.000 m2

LA AJ view from the car free internal street | space for social interaction

LA AJ sections showing the hidden parking space and the jerarchy of patios

Social Housing in Montoro, Cordoba [ES] 2006, Competition, Honourable Mention Client| EPSA Andalucia

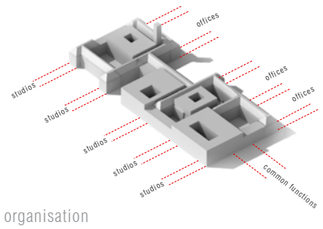
LA AJ view from the street shows the broken geometry to provide every dwelling with an outside space



ARUP California College of Arts & Crafts. SF- Image Credit:Richard Barnes
Chapman University, California USA Image Credit: Berger Conser

03 The design studio

LA AJ laura alvarez architecture



organisation

relation outside inside spaces

Learning, Teaching, Researching

On March 2009, our practice was awarded First Prize in the International Competition for the new Faculty of Architecture building for the Technical University of Delft, The Netherlands. This competition was launched after a fire ravaged the building, reducing it to ashes. We recall watching the fire from our studio, it was a very emotional day, and this gave our studio the sheer determination and drive to create an even better faculty building, at least there was something we could do.

The Jury for the competition was composed of prestigious architects such us Rahul Mehrotra, Herman Herzberger, and Liesbeth van der Pol [in charge of Architecture for the Netherlands]. Our design was awarded 1st among 466 entries from around the world.

The design brief was very similar to the requirements for the ABP, though there is a difference in size. Because requirements are quite similar between the two buildings, we have a clear understanding of how we think a Faculty of Architecture, Building and Planning could be understood. However, we also understand that until we have met with the client, key users, researchers, students and teachers, we cannot begin to design it.

Learning process

We like to think that studying architecture is a very complex process and so, the building needs to make room for every facet of this process. It is a process that includes firstly research, then analysis, followed by creation and inspiration, when the ideas start appearing, and finally production or making these ideas manifest through drawings, models, presentations, virtual communication

Throughout this process, there exists the exercise of continually interacting with other people to discuss ideas, theory and deign and then taking distance to formulate these ideas into a design. A Faculty of Architecture building should be able to host all of the spaces necessary for this process.

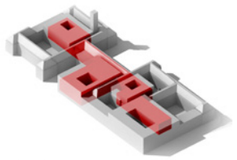
Functional organisation

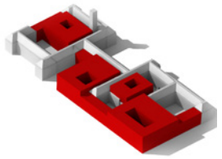
Studios play a very special role in the building for the TU Delft, as they should. Because of this, we consciously placed them around the perimeter of the building. They are given a very strong relationship with the teaching units. The studios are understood as creation spaces, and their position brings the flexibility either to be connected with the common functions or to be more individual or away.

Experience in teaching

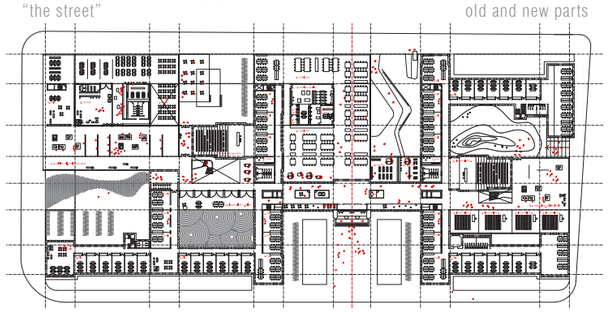
Laura Alvarez has been teaching Design Studio for the Masters Program at the TU Delft since 2007. This gives her a wider and clearer vision of how to make a better building for the faculty of Architecture.

"In Delft it is considered extremely important to provide students, researchers and staff members with high quality infrastructures. Within the design studios all the students have a place for them. They work the whole day in the Faculty, so the contact with other students, exhibitions, lectures is guaranteed" says her.





"the street"



old and new parts

ground floor | entrance level

Conciseness in architecture

In present day, we are witnessing the phenomenon of starchitecture and the over iconisation of buildings: Architects, developers, and clients are looking for affirmation and attention through overly iconic and over budget buildings by signature architects.

Silence and absence matter, or humility, have turned into unexciting qualities for architecture during the last decades when budgets are blown more on appearance than functionality and connectivity.

Originality is dangerous. Our practice believes in architecture that does not need to shout to be present or strong. As with our design for the Faculty of Delft, the new building is quietly placed behind the existing. Its strength is precisely in not competing with the presence of the old building but instead, in creating an equality of functionality and aesthetic integration.

During the award ceremony of this competition, Liesbeth van der Pol referred to our project with the following words:
"...The strength of this entry lies in a new sense of modesty that seems to radically differ from the "star" architecture that dominated a large part of the architectural debate over the last decades. The design does not impose itself, but offer space for creativity, development and change.....
....This proposal is considered a very strong statement, stressing the importance of appreciating social, physical, economical and sustainable terms."

ARUP diagram 1

ARUP

Knowledge and Experience

Arup's experience in education has enabled them to develop a detailed appreciation and understanding of the key drivers that contribute to the successful delivery of tertiary education projects. Specifically, they have identified unique and tangible benefits which they can bring to the University of Melbourne.

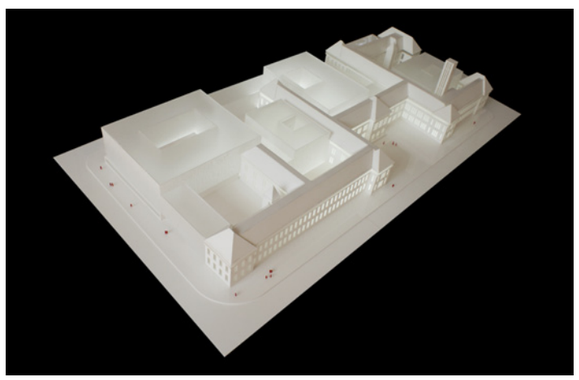
Arup has worked on many of Melbourne's tertiary education facilities and delivered landmark community and public buildings. Their knowledge gained from this experience is invaluable. They understand client drivers can vary and as such, establish these as defining a strong framework for project success.
Arup has a global Skill and Knowledge network for the Education sector where international best practice developments and ideas are shared.
In a number of recent UK education facilities, key issues similar to those here in Australia have been successfully resolved as follows:

Summertime overheating/effective ventilation
With the increased use of IT, effective comfort strategies are harder to achieve. Significant effort and accuracy is to model seasonal performance to ensure spaces remain within prescribed temperature and CO2 limits.

Daylighting
There is a proven link between good levels of daylighting and learning. The challenge is whether this can be achieved uniformly across the floorplate, as opposed to only at the perimeter. The added benefit is to reduce energy consumption and carbon emissions. To integrate a successful daylight strategy without adding to the overheating challenge also requires analysis and modelling.

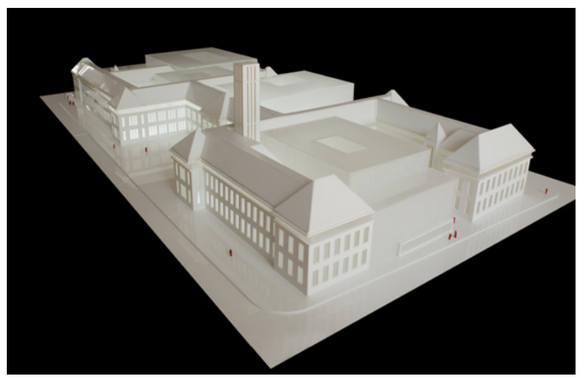
External acoustics
UK Building Regulations require very low internal noise levels in education facilities and there are issues with most urban or even suburban sites due to ambient noise from roads, rail or aircraft. This makes it harder to develop simple natural ventilation strategies, i.e. opening windows.
These issues and their interrelationship are illustrated in the simple adjacent diagram [1]

New Faculty of Architecture and Urban Planning, Delft, The Netherlands [NL] 2008, Competition, First Prize Client|TU Delft program| studio spaces, lecture hall, library, presentation rooms, auditorium, model room, offices, restaurant, shops Area | 58.000 m2



LA AJ view of the model showing the distribution of program around patios

LA AJ view from one of the entrances to the building



LA AJ virew of the model showling integration of old and new parts

LA AJ view from the "street" of the faculty

04 The living building

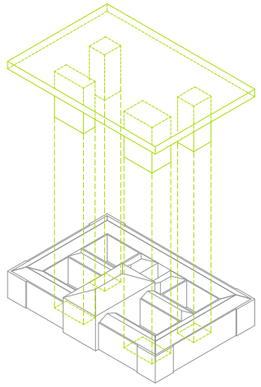
LA AJ laura alvarez architecture

Long lasting architecture

We are very often tempted to think that we solve sustainability issues just by using materials properly and adapting the building to the climactic conditions of the site. Of course this is absolutely necessary but there are deeper issues which can fall under the rubric of sustainability, though these are not always addressed in today's architecture.

Sustainability can be approached not only from a physical standpoint but also a cultural one. Accessibility to all cultures and physical capabilities should be taken into account.

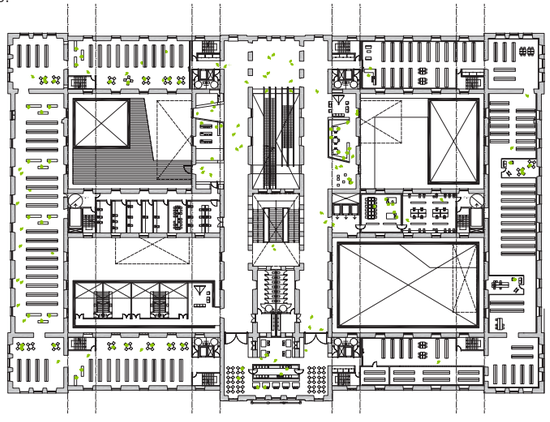
Architecture should be long lasting, both physically and in history's memory. Alvarez feels that this is something architects have forgotten over time. Our practice strives to maximize the essential and to get rid of the superfluous.



new volume rest on the voild left by the existing building

exisitng tobacco factory tabakalera

old and new parts



floorplan shows the clear structure of the old building and the insertion of new program in patios

Reuse of existing infrastructure

We have worked quite often in locations with existing edification planned to be either partially or totally demolished. When we get involved in such a project, we start simultaneously analysing the current situation and the design brief. We ask ourselves, what still has use in the future that we should retain, and what can go? Why should we always begin with a tabula rasa, if we can literally build on what already exists.

In the project Inside Out, New Media Centre in San Sebastian, Spain, the location was an old tobacco factory from the early 20th centruy. The design brief required a built surface of 33.000 m2, 40% more than what the existing building could actually offer.
We were faced with a wonderful built location and so decided to keep the building intact, affecting by no means it's presence.

We proposed to create a totally new building, like a table with an extra storey, within the existing building without interfering with its own structure. The two volumes, clearly different, complement each other and adapt themselves to be able to host the new programme requirements of the new media factory. Innovative and dynamic, the new media factory will allow for spaces devoted to visual contact, as evident in the building itself. From spaces within the old building, views to the new spaces are available, creating connections between the existing and new.

Accessible to all users

One of our core beliefs is to make architecture physically and culturally accessible to everyone. All our projects are wheelchair-friendly and never discriminate against any visitor by forcing them to use alternative routes or circulation. Our buildings are also very clearly organized to avoid disorientation.

Furthermore the building should in now way show a bias toward or against any culture or socio-economic background and instead welcome everyone. This is the case in the new ABP building because it is so internationally orientated.

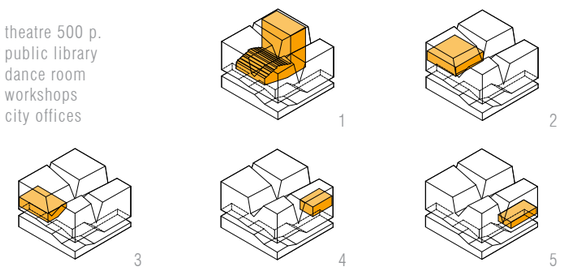
To create a more democratic building for the Theatre Complex in Northwich, England, we added public programmes including a public library, city offices, and workshop rooms. This programme in addition to the theatre completes a wide range of cultural activities in which every citizen could be involved. It also provides interaction among perhaps disparate groups within the city.

Combination of functions

Adding and combining functions within the Theatre Complex provided us another extraordinary result: opening hours are now extended from early in the morning until midnight, and instead of having several buildings used only part time, we have created a lively building that functions almost 24 hours a day.

This principle is very important for the new ABP: The more time students, teachers, researchers and staff members can spend in the new building, the less number of other facilities would be needed to provide them with the necessary functions. Not only is this sustainably sound, but efficient and time saving.

1 theatre 500 p.
2 public library
3 dance room
4 workshops
5 city offices



ARUP

Building Sustainability

Arup has a very strong background in all aspects of sustainability from ESD related to building construction to strategic sustainability and complex modelling. They have been involved in new and existing buildings and also those combining both building types like this project.

In July last year the Property Council of Australia (PCA) launched the "existing buildings // Survival strategies – a toolkit for re-energising tired assets". This was compiled by Arup for the PCA from the team in Melbourne and will provide a strong basis for investigating the opportunities for sustainability within the Old Commerce Building.

Strategic Sustainability

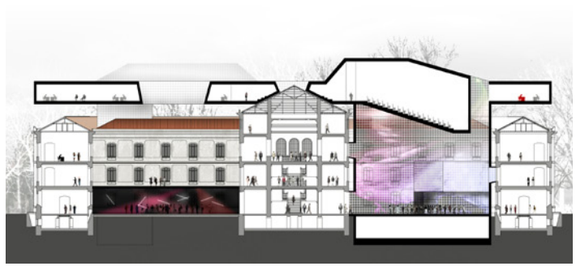
One of the most successful sustainability techniques which Arup has applied to projects of a similar size and scope to the proposed ABP Faculty is Arup's SPeAR® (Sustainable Project Appraisal Routine) tool. SPeAR® seeks to provide a structured process for planning, assessing and reporting on sustainability in its most holistic sense by addressing issues of environment, natural resources, society and economics.

The key output of a SPeAR® appraisal is a SPeAR® diagram, such as the adjoining example. The diagram provides a graphic illustration of the diverse issues that may be considered when assessing the sustainability of a project. SPeAR® appraisals can highlight where a project performs poorly in terms of sustainable principles and areas which require optimisation, or where the balance between positive and negative needs to be investigated in more detail. Arup is able to assist the University of Melbourne by:

- defining sustainability for the University of Melbourne and the architectural design of the ABP new building;
- planning and designing for sustainable outcomes across a multidisciplinary project team;
- supporting the achievement of environmental performance aspirations;
- assessing and informing sustainability aspects of design and ongoing performance; and
- communicating sustainability.

Tabakalera Media Centre, San Sebastian [ES] 2008, Competition Client | CCCI San Sebastian | Exhibition space, performance space, mediatheque, filmotheque, film studio, projection rooms, library, restaurants and cafe Area | 33.000 m2

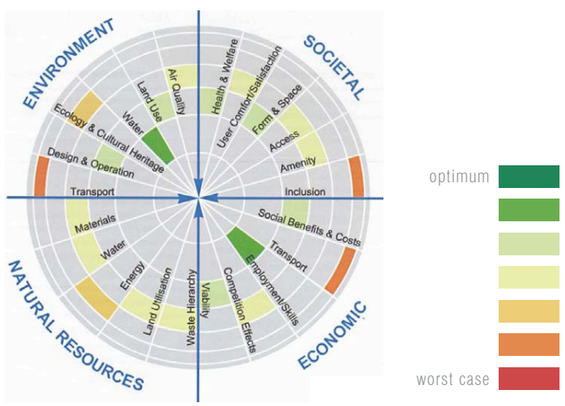
LA AJ old and new live together without interfering with each other



LA AJ section showing old and new part

Cultural Centre, Northwich [UK] 2008, Competition Client | Northwich Regenerator Partnership Program | Exhibition space, theatre 500p, dance space, public library, workshops, offices, cafe, restaurant Area | 5.000 m2

LA AJ the promenade along the building connects and distribute de visitors



ARUP SPeAR® diagram issues to be considered regarding sustainability

05 Capability and Process

laura alvarez architecture

Laura Alvarez, founding partner of laura alvarez architecture studied at Escuela Técnica Superior de Arquitectura de Barcelona as well as in Valladolid, Spain. Between her studies in those cities, she also studied architecture at the TUHH Hamburg, Germany.

In 2008 she founded laura alvarez architecture after her extensive experience working for well known international practices including Mecanoo, SeARCH, Bethem Crouwel and Ferrater.

While working for these practices, she was integrally involved as project architect for large-scale public projects including the Palace of Justice for Cordoba in Spain.

"Our way of approaching a large scale projects gives us the opportunity to team up with the best professionals selected especially for the requirements of each project. It also allows us to have a more international oriented office with insight into local culture and expertise. Every country works differently, with different building regulations and so cooperation with local professionals is key. This would be more difficult to achieve if you have a fixed structure..."
Laura Alvarez

Selection of collaborative consultants

laura alvarez architecture proposes ARUP Melbourne as local consultant for all the technical aspects of the project including structural, mechanical, electrical and sustainability consultancy. We have provided detailed information about Arup because we are an integrated design team, and we feel that it is important that the University understands our qualifications and roles clearly.

process

laura alvarez architecture will assure good communication between design team members and client.

In order to achieve this, it is important that we understand the client brief and work in close cooperation with the client and users to establish clear goals and programme requirements. This is accomplished through site visits and excursions with the client and users to other projects to determine what works, what does not and also to get an idea for how the building should live in its environment. Interviews with staff, researchers, students as well as with other universities will also help to establish solutions to problems which the University may not have anticipated, or could just make the building better, a living example.

A clear schedule of meetings and workshops will be agreed upon in which all team members will participate. We are open to any means of communication necessary to convey our design fluently; visualisation, 3d models, and working models.

laura alvarez architecture will provide a dedicated project team involved from the beginning. We will work intensely with our consultants, from the start of the project in conceptual design. It is important that engineering and architecture work hand in hand from the beginning so that feasible, functional design can be realised.

Client References

deheer Jasper Schweigman, urban project developer
ROEZ Office of Urban Planning
Municipality of Groningen
Gedempte Zuiderdiep 98
9711HL, GRONINGEN |NL
T. +31 [0]50 367 81 11

deheer Kris Hoornstra, project manager
BAM Vastgoed - Wonen Noordoost
Postbus 677, 8000 AR Zwolle |NL
T. +31 [0]50 31 668 40

Mr. Miguel Pontijas, project manager
Ayesa Ingeniería, Aguas y Estructuras
Marie Curie, nº 2 Edif. Grupo Ayesa
Isla de La Cartuja, 41092 Sevilla
T. +34 954 46 70 46

List of relevant recent projects/competitions

Housing development, 180 patio residences, Groningen, The Netherlands
New Faculty of Architecture, Delft, The Netherlands
Cultural Centre, Northwich, United Kingdom
Media Centre, San Sebastian, Spain
Cultural Centre, Lorca, Spain

mecanoo architecten | laura alvarez, project architect
Palace of Justice, Cordoba , Spain
Johor Development Region, Iskandar, Malaysia
Offices for the Municipality, Sevilla , Spain
175 residences, Malaga, Spain

ARUP

The Arup Process

Arup will provide engineering services for the proposed development to achieve the best possible outcomes for the university.

- They will provide a service which exceeds that achieved by a basic and non-responsive alternative.
- Arup will meet programme, quality and budget expectations for this project.
- Their commitment is to provide a far-reaching exceptional service – a partner that will help drive and deliver this development.

Arup will work closely and proactively all stakeholders to produce a highly integrated and efficient design that exceeds the aspirations of the university. Arup is actively engaged with the planning and delivery of education facilities across the globe. Their extensive education experience include all types of facilities such as secondary and university buildings, class rooms, lecture theatres, laboratories, and auditoria; and ranges from new build and extensions through to the modernisation of existing buildings.

Arup look forward to working closely with laura alvarez architecture and the University of Melbourne in delivering a high quality building that will be celebrated by students, staff and the wider community.

Local Board and Authority Registrations

Arup is a member of:
- Engineers Australia;
- Association of Consulting Engineers Australia;
- Property Council of Australia; and
- Australian Construction Industry Forum

Arup is also on numerous consultant panels for the:
- Departments of Transport;
- Department of Human Services;
- Department of Sustainability and Environment;
- Department of Defence;
- Department of Foreign Affairs and Trade; and
- Department of Innovation, Industry Science and Research.

Client and User Engagement Methodology

Because of the broad range of agendas that will need to be managed by the Design Team Arup's approach will be to work with the University of Melbourne and the project's Design Team so that all involved view them with confidence, and place relianc upon their professional competence and integrity.

Client References

Mr Peter Stewart General Manager [School Resources]
Office of Resources and Infrastructure
Department of Education and Early Childhood Development Level 2, 2 Treasury Place, Melbourne, 3002
T. [03] 9637 3051

Sean Sweeney Executive Director, Major Projects Victoria
Level 8, 121 Exhibition Street, Melbourne 3000
Telephone: [03] 9655 8622

Relevant Projects

A brief selection of current and completed tertiary education projects follows. Through the substantial experience gained on these and similar projects, we have been able to continuously refine our designs to the benefit of our clients.

National Institute of Circus Arts
Swinburne Centre for Sustainability
Bio 21, University of Melbourne
Monash Law School
School of Sustainable Development, Bond University
Victorian College of the Arts
Swinburne X-change
University of Tasmania

Informatics Collaboratory of the Social Sciences [ICoSS], University of Sheffield, United Kingdom
School of Creative Media, City University of Hong Kong
Salford University, Greater Manchester, United Kingdom
African Institute of Science and Technology, Abuja, Nigeria
University of California, Merced, California, USA

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Laura Alvarez, founding partner
laura alvarez architecture

ARUP Arup Melbourne
team members

ARUP

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www.arup.com

06 Merit

LA AJ laura alvarez architecture

awards
2009 New Building for the Faculty of Architecture of Delft, The Netherlands, Competition,1st Price
2006 Housing project in Montoro, Cordoba, Spain, Competition, Honorable mention

mecanoo architecten | laura alvarez, project architect

2008 Johor Development Region, Iskandar, Malaysia, Competition 1st/2nd prize, pending
2006 New Building for the Palace of Justice, Cordoba, Spain, Competition 1st Prize

Ongoing exhibitions
"Intense Low rise"
180 apartments in Groningen
Exhibited at Municipality of Groningen.
from April 6 till June 9 2009
www.groningen.nl/intenselaagbouw

"Building for Bouwkunde"
Faculty of Architecture of Delft
Exhibited at NAI National Architecture Institute, Rotterdam, NL
from march 14 till June 7 2009
www.nai.nl

eduactional merits
2007-now Teacher of Design Studio at Master Class coordinated by Tony Fretton, Faculty of Architecture of Delft, The Netherlands

2009 Tutor of Master Graduation Project, Faculty of Architecture of Venice, Italy

Publications magazines
B_Nieuws n.07| 2009, The Netherlands
de architect| April 2009, The Netherlands
AV Proyectos n.30| 2009, Spain
dax magazine n.24| 2009, The Netherlands
area n.104| 2009, Italy
AWM 26 architectenweb magazine| 2009, The Netherlands
future arquitecturas n.16 | 2009, Spain
TC Cuadernos n.88| 2009, Spain

Publications newspapers
de Volkskrant, 16.04.2009 p.10
"Nieuwe architect is sociaal betrokken en denkt organisch"

Trouw, 25.04.2009 p.33
"Bouwen voor Bouwkunde"

el diario de Valladolid, 16.03.2009 p.11
"Una vallisoletana diseñará el edificio de Arquitectura de la Universidad de Delft"

el norte de Castilla, 14.03.2009 p.23
"Una ex-alumna de la Uva opta a un importante premio en Holanda"

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bdonline
competitionline
professione architetto
baunetz
archicentral
arkitera
TU Delft

ARUP

awards Local Projects
2008 ASI [Australian Steel Institute] VIC/TAS Division - The Travellers, 'Creative Innovations Steel Design Award'

2008 ASI [Australian Steel Institute] VIC/TAS Division - NICA [National Institute of Circus Arts] 'Architectural Steel Design Award'

2008 ACEA [Association of Consulting Engineers Australia] National Awards - NICA [National Institute of Circus Arts], Melbourne 'Building' category –'Certificate of recognition'

2008 ACEA [Association of Consulting Engineers Australia] National Awards, 'Project of the Year' - The Water Cube

2008 ACEA [Association of Consulting Engineers Australia] National Awards - Stockland Head Office, Sydney 'Specialist' category – 'Gold Award of Special Merit'

2008 ACEA [Association of Consulting Engineers Australia] National Awards - 2 Market St, Sydney 'Building services' category – 'Silver award of Highly Commended'

International Projects
- 2008 Australian Engineering Excellence Awards, 'The Sir William Hudson Award' - The Water Cube - 2008 ACEA [Association of Consulting Engineers Australia] National Awards - The Water Cube 'International/ Export' category – 'Gold Award of Special Merit'

-2007 AIA [American Institute of Architecture] 'Institute Honor Award for Achitecture' – Unviersity of California, Merced

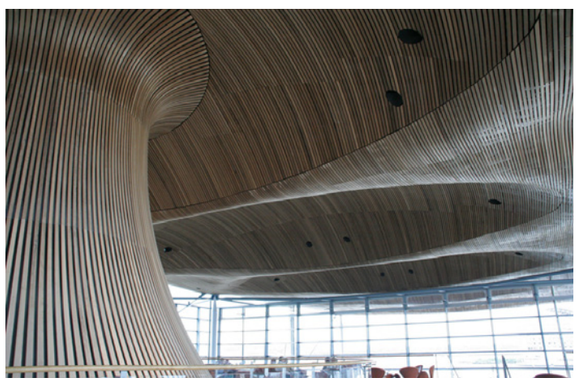
- 2007 Structural Engineers Association of Arizona 'Excellence in Structural Engineering Award' – Northern Arizona University Applied Research and Development Facility
- 2006 AIA [American Institute of Architecture] San Francisco Chapter 'Excellence in Architecture Design Honor Award' – University of California, Merced

- 2006 International Green Apple Awards for Built Environment and Architecture Heritage 'Gold Award' – ICoSS

- 2005 Holcim Awards for Sustainable Construction North America, 'Acknowledgement' - Northern Arizona University Applied Research and Development Facility

LA AJ Laura Alvarez recieving award from the hands of dutch Minister of Culture, Mr. Ronald Plasterk

LA AJ laura alvarez during master class at TU Delft



ARUP foyer National Assembly of Wales

ARUP outside view National Assembly of Wales