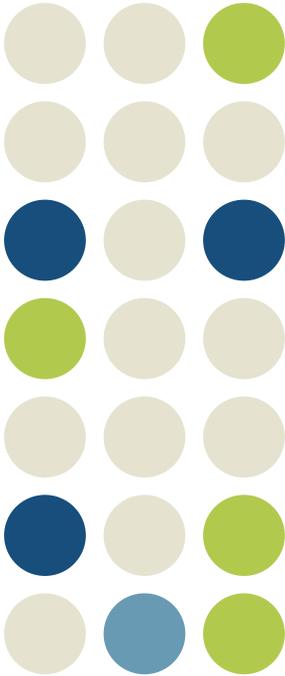
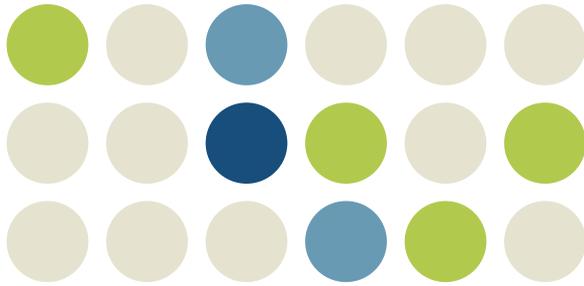


An aerial photograph of Barcelona, Spain, featuring the Gaudí Sagrada Família in the foreground. The church's ornate, colorful spires and tiled roof are prominent against the dense urban landscape of the city. The sky is clear and blue.

2014 AIA - CAE CONFERENCE  
**THE VALUE OF DESIGN:**  
ENHANCING EDUCATION  
THROUGH ARCHITECTURE

BARCELONA, SPAIN | APRIL 27-30 | 2014

# B1



## Performs with flying colors.

THE B1'S DOUBLE CANTILEVER DESIGN is one good reason it's the most flexible chair on the market. The other? The versatile color system. Quietly sophisticated or boldly punctuated, it's a palette that opens up your design options. The B1 won't make a Monday status meeting or a poly-sci lecture any shorter, but it will perform with flying colors.

vs-network.com  
info@vs-charlotte.com  
704.378.6500



# The Art of Space



McCoy Center for the Arts  
Westlake Reed Leskosky



El Dorado High School  
CADM Architecture



Carver Center for Arts & Technology  
Grimm + Parker

**It's more than just a seat - *it helps define your vision.***

Your seating partner should design solutions as carefully as you weave together an audience and a space. By collaborating with you, listening to your ideas, and understanding your design, Hussey creates seating solutions to embody your vision.

Find more at [www.husseyseating.com/theartofspace](http://www.husseyseating.com/theartofspace)



**husseyseating™**

YOUR PARTNER FOR SEATING SOLUTIONS

Toll Free (USA) 1.800.341.0401

Tel: +1.207.676.2271

[info@husseyseating.com](mailto:info@husseyseating.com)

[www.husseyseating.com](http://www.husseyseating.com)

THANK YOU TO OUR GENEROUS SPONSORS



**husseyseating**<sup>TM</sup>

YOUR PARTNER FOR SEATING SOLUTIONS



**EDspaces**  
DECEMBER 4-6, 2013 | SAN ANTONIO, TEXAS  
*The Marketplace for Innovative Learning Environments*

 **BIG ASS FANS**<sup>®</sup>  
No Equal.



*Thank you to DOWA-IBI Group Architects, Inc. for providing graphic design and support in the production of this brochure, and to Willamette Print and Blueprint Company, Inc. for assistance in its publication.*

# TABLE OF CONTENTS

---

	Page	Tour Sites	Page
Mission Statement & Goals	6	Mies van der Rohe Pavilion	28
CAE Advisory Group	7	Escola CEIP Fort Pienc	32
CAE Conference Committee	7	Institut d'Arquitectura Avançada de Catalunya	36
Letter from the Conference Chair	8	Bau, Centre Universitari de Disseny	42
Letter from the Chair	10	Centre de Cultura Contemporània de Barcelona	46
Schedule	15	Col·legi d'Arquitectes de Catalunya	52
		Guarderia Els Colors	60
		Institut Carles Rahola i Llorens	66
		Facultat de Dret de la Universitat de Girona	70
		Escoles de la Sagrada Família	76
		Basilica of the Sagrada Família	80
		La Torre Bellesguard	84
		Escola Sant Gregori	88
		Maps	95

# MISSION STATEMENT & GOALS

## ABOUT THE COMMITTEE ON ARCHITECTURE FOR EDUCATION

The American Institute of Architects Committee on Architecture for Education (CAE) is the largest single organization in North America that is the authoritative voice on the planning and design of educational environments for all age groups. Connecting more than 9,000 architects and allied professionals interested in designing, building, and using superior educational, cultural, and recreational facilities, CAE members educate the public about the value of quality educational facility design.

[www.aia.org/cae](http://www.aia.org/cae)

## MISSION STATEMENT

The Committee on Architecture for Education (CAE) is a large and active group of architects and allied professionals concerned with the quality and design of all types of educational, cultural, and recreational facilities. While a large portion of our members practice in the K-12 and higher education markets, we look to serve the needs of those who serve the educational needs of all ages. CAE identifies national educational facility issues critical to architects and works to strengthen relationships with allied organizations, client groups, and the public.

## GOALS

To focus on effective project delivery, team building, collaboration, project management, financial management, communications skills, management skills, and cutting-edge design issues for architects providing the diversified services associated with educational architecture.

## ABOUT THE CAE FOUNDATION

The Committee on Architecture for Education Foundation is a non-profit organization that supports and promotes research, education, and sustainability in the creation of learning environments.

[www.aia-cae.org](http://www.aia-cae.org)

## CAE 2014 ADVISORY GROUP

### PRESIDENT AND CHAIR



Paul Hutton, AIA, LEED AP, NCARB  
Cunningham Group Architecture  
Denver, CO

### VICE PRESIDENT



Steven M. Shiver, AIA, LEED AP, NCARB  
NAC|Architecture  
Seattle, WA

### TREASURER / 2014 CAE DESIGN AWARDS CHAIR



John R. Dale, FAIA, LEED AP  
Harley Ellis Devereaux  
Los Angeles, CA

### SECRETARY / 2014 CAE DESIGN AWARDS CO-CHAIR



Claire B. Gallagher, Assoc. AIA, PhD  
Georgian Court University  
Lakewood, NJ

### 2015 CAE DESIGN AWARDS CHAIR



Stuart Pettitt, AIA  
Straub Pettitt Yaste Architects  
Clawson, MI

### PAST-PRESIDENT AND CHAIR



Caroline Lobo, AIA, PhD  
SuoLL  
Scottsdale, AZ

## CAE 2014 SPRING CONFERENCE COMMITTEE

### CHAIR



Bob Moje, FAIA  
VMDO Architects, Charlottesville, VA

### CO-CHAIR



Steven M. Shiver, AIA, LEED AP, NCARB  
NAC|Architecture, Seattle, WA

### STEERING COMMITTEE



Karina Ruiz, AIA  
Dull Olson Weekes - IBI Group Architects,  
Portland, OR



Iñaki Alday  
aldajover architecture and landscape, Barcelona  
Quesada Professor and Chair of the Department of  
Architecture, University of Virginia



Enric Massip-Bosch  
Estudi Massip-Bosch Architects, Barcelona



Claire B. Gallagher, Assoc. AIA, PhD  
Georgian Court University, Lakewood, NJ

### COMMITTEE AT LARGE

*Dominique Tomasov Blinder, AIA, COAC*

*Tiina Mäkelä*  
*eduDESIGNFINLAND*

*Tonya Horsley, CMP*  
*AIA Staff*

*Kathleen Simpson, CAE*  
*AIA Staff*

## LETTER FROM THE CONFERENCE CHAIR

On behalf of the Conference Planning Committee we welcome you to Barcelona for the 2014 CAE conference, The Value of Design: Enhancing Education through Architecture. We believe you will find you experience here engaging and stimulating, and one that will help shape your thinking and your work for years to come.

We would like to thank all of those who have contributed to the planning, organizing and arranging of this conference, and to those who secured our tour sites, speakers, and contributed to our publication. In particular we would like to thank all of our Catalanian architects, educators, sponsors, and site hosts for their generosity. They have been most gracious with their time, making some wonderful buildings and sites available for you to visit. Without their help, none of this would be possible.

The conference opens at one of the iconic buildings of the era of modern architecture, The Barcelona Pavilion, which is Mies van der Rohe's masterpiece and will set the tone for this conference. Our speaker that evening is a well known expert in Architectural Design and the Catalanian culture, Josep

Maria Montaner. Monday we will be concentrating on a number of sites within the city of Barcelona; on Tuesday we extend our tours to the surrounding region; and on Wednesday our conference concludes with a return to the heart of Barcelona and Gaudi's masterpiece The Sagrada Familia. We will see educational facilities of all types and be hosted by some amazing architects, educators, and policy makers from the region.

We have the good fortune of being hosted at each site by some of the leading architects of not only of the Catalanian region, but of the entire European continent, and will have the opportunity to engage and interact with educational experts, teachers, and in some very special cases, students. Experts in cutting edge issues in sustainability, one from the United States and one from Germany, will offer their insights into the latest aspects of this important area of educational design, and we have invited a speaker from the previous London conference who will update us on his exciting and innovative work designing educational environments for students with special needs, including those on the Autism Spectrum.

The Catalanian region is rich in culture, and on the world stage has some of the most exciting examples of teaching and learning environments, particularly those related to early childhood education; the value of design and the apparent synergy between teaching, learning, and school design is evident. Design competitions have often been used to promote and push the boundaries, resulting in some of the most progressive examples of the impact of design and architecture on learning.

Catalonians are noted for their passion and their zest for life. In that spirit we will be dining late and absorbing as much of the Catalanian culture as possible, so eat a hearty breakfast. We look forward to a rewarding and enriching time in Barcelona and the greater Catalanian region, and are pleased that you have chosen to join us. Sincerely,



Bob Moje, FAIA

## CARTA DEL PRESIDENT DE LA CONFERÈNCIA

En nom de la Comissió de Planificació de la Conferència vull donar-vos la benvinguda a Barcelona per la conferència CAE 2014, El valor del disseny: Millorant l'Educació a través de l'arquitectura. Creiem que trobareu atractiu i estimulant tot allò que experimentareu aquí i que us ajudarà a donar forma a les vostres idees i el vostre treball en els propers anys.

Voldríem agrair a tothom que hagi contribuït a la planificació i l'organització d'aquesta conferència així com totes aquelles persones que han treballat per confirmar les visites que farem, els oradors i els que han contribuït a la nostra publicació. En particular, ens agradaria donar les gràcies a tots els nostres arquitectes catalans, els educadors, els patrocinadors i els amfitrions per la seva generositat. Han sigut realment magnànims amb el seu temps per tal d'aconseguir que puguem visitar alguns edificis meravellosos. Sense la seva ajuda, res d'això hagués estat possible.

La conferència s'obre en un dels edificis emblemàtics de l'època de l'arquitectura moderna, El Pavelló de Barcelona, que és l'obra mestra de Mies van der Rohe i que determina el to per a aquesta conferència. El orador convidat aquesta nit és un reconegut expert en disseny arquitectònic i en la cultura catalana,

Josep Maria Montaner. El dilluns ens concentrarem en la visita d'uns quants llocs d'interès dins la ciutat de Barcelona; el dimarts ampliarem les nostres excursions a la regió circumdant, i dimecres la conferència conclou amb un retorn al cor de Barcelona i l'obra mestra de Gaudí, la Sagrada Família. Anirem a veure instal·lacions educatives de tot tipus on serem rebuts per arquitectes increïbles, educadors i responsables polítics de la regió.

Les visites a les instal·lacions seran enriquidores i proporcionaran informació de diversos individus interessants ja que tenim la sort de ser rebuts en cada lloc per alguns dels arquitectes més destacats no només de Catalunya, sinó també de tota Europa i tindrem l'oportunitat de participar i interactuar amb experts en educació, professors, i en alguns casos molt especials, amb estudiants. Experts en temes d'avantguarda en la sostenibilitat, un dels Estats Units i un altre d'Alemanya, oferiran els seus coneixements sobre els darrers aspectes d'aquesta important àrea del disseny educatiu. També hem convidat un orador de la conferència prèvia que va tenir lloc a Londres, el qual ens posarà al dia amb el seu treball emocionant i innovador en el disseny d'entorns educatius per als estudiants amb necessitats especials, entre ells el del trastorn de l'espectre autista, un tema molt important i oportú.

La conferència ha estat organitzada a propòsit de manera que tots els participants hi seran junts durant tot el temps per proporcionar oportunitats per al diàleg i per promoure la formació de relacions i amistats duradores. La regió de Catalunya és rica en cultura, i en l'escenari mundial té alguns dels exemples més interessants de l'ensenyament i l'entorn d'aprenentatge, particularment els relacionats amb l'educació de la primera infància; el valor del disseny i l'aparent sinergia entre l'ensenyament, l'aprenentatge i disseny de l'escola esdevenen evidents. Els concursos de disseny sovint han servit per promoure i empènyer els límits i han resultat en la realització d'alguns dels exemples més progressistes que posen en relleu l'impacte del disseny i l'arquitectura en l'aprenentatge.

Els catalans són coneguts per la seva passió i el seu entusiasme per la vida. En aquest esperit dinarem tard per tal d'absorbir quant més millor de la cultura catalana, o sigui que serà millor si feu un esmorzar abundant. Esperem que tingueu una estada gratificant i enriquidora a Barcelona i a la regió de Catalunya. Ens complau que hageu decidit unir-vos a nosaltres.

Atentament,

  
Bob Moje FAIA

## LETTER FROM THE CHAIR

On behalf of the American Institute of Architects (AIA) Committee on Architecture for Education (CAE), I would like to welcome you to Barcelona for our Spring conference. Every few years the CAE ventures outside the United States, most recently to Helsinki in 2008 and London in 2011, and it seemed we were due for a visit to the southern portion of the continent. I am encouraged to imagine a future international CAE conference even further from our shores, perhaps in Asia, Australia, or Africa.

The CAE is the second oldest knowledge community in the AIA, starting as the Committee on School Buildings in 1948. Today we have more than 9,000 members in the U.S. and abroad, and our interests have expanded to include early childhood education, higher education, libraries, museums, and alternative learning environments. The CAE is the only professional organization purely focused on the impact of design on education. Since becoming actively involved with the CAE six years ago, I have found the conferences, tours, and other activities deal with real issues at a deeper level than can be found anywhere else. We are united by the firm conviction that excellent facilities, grounded in

an understanding of the pedagogy occurring within them, enhance learning.

The CAE's theme for 2014 is the Value of Design, building upon last year's highly successful theme of Design Thinking and Creativity. It also connects with the current effort of Repositioning the AIA, through which we seek to raise public awareness of the role of the architect and advocate for the profession of architecture.

Today there are many new and different players seeking a role in the design and construction process, from Owners Representatives to Commissioning Agents to Regulatory Authorities. These entities and many more have steadily infringed on the traditional role of the architect. As a result, the public in general, and even many of our clients, have little idea of what we do and the degree to which we influence the final shape of our buildings. One aim of this conference is to equip our members to better explain the benefits of quality design for education. And what better way to learn these lessons than to witness them first hand, as we will do over the next few days!

Few cities in the world so consistently demonstrate the value placed on design as Barcelona. With a history

stretching back to the Roman era, there is a palpable sense of what has gone before. And yet Barcelona is unafraid of the future and constantly reinventing itself. Many are aware of the city's rich artistic heritage, including native sons Picasso, Miro, and Dali. But as important is the city's role as an entrepreneurial and economic engine for southwestern Europe, powered by the creativity and passion of its citizens.

Decades of repression of Catalan culture and language ended with the demise of the Franco era in 1975. A resurgence began, and at the forefront was the reinvigoration of education and the facilities that house this all important activity. In the course of our conference, we will see many examples of educational facilities that sprang from post Franco education reforms. Although our tours will focus more on recent design, we will not neglect two buildings that have left an indelible impression on the world of architecture. They alone would establish Barcelona as a must see city. I am thinking of course of Gaudi's Sagrada Familia and Mies' Barcelona Pavilion. The contrast between them - one eternal and the other ephemeral - is fascinating. The former has been under construction for the last 132 years, while the latter

was built in a few months and didn't exist at all for 56 years. I am thrilled that we are privileged to experience both of them with such expert guidance.

An undertaking such as this conference in a distant location only happens through the efforts of many different individuals, each contributing his or her time, skill and knowledge. I would like to personally thank our Conference Chair, Bob Moje, and Assistant Chair, Steve Shiver. Iñaki Alday, Chair of the Department of Architecture at the University of Virginia, who also practices in Barcelona, provided much invaluable assistance. The many members of the Committee, whom you may find listed in this brochure, all made valuable contributions. Our staff at the AIA have been remarkably patient and calm as we have worked through many challenges. Finally, the generous support of our sponsors makes this all possible. When you meet any of these individuals over the next four days, please let them know how much you appreciate their contributions.

I hope your time in Barcelona and the new friendships you establish here will inspire you to become more active in the CAE. Our success depends on diversity of ideas, experiences,

and backgrounds, and we would enthusiastically welcome your voice within our group.

Sincerely,



Paul C. Hutton, AIA, LEED BD+C  
2014 Chair, AIA Committee on  
Architecture for Education  
Cunningham Group Architecture  
Denver, Colorado

## CARTA DEL PRESIDENT

En nom de l'Institut Americà d'Arquitectes (AIA) Comitè d'Arquitectura per a l'Educació (CAE), m'agradaria donar-vos la benvinguda a Barcelona per la nostra conferència de primavera. Cada pocs anys la CAE s'aventura fora dels Estats Units, més recentment a Hèlsinki el 2008 i a Londres el 2011, i ens va semblar que ja era hora de fer una visita a la part sud del continent. M'entusiasma imaginar una futura conferència internacional CAE encara més lluny de les nostres costes, potser fins i tot a Àsia, Austràlia o Àfrica.

El CAE és la segona comunitat de coneixement en antiguitat de l'AIA, començant com a Comitè d'edificis escolars el 1948. Avui en dia comptem amb més de 9.000 membres als EUA i a l'estranger, i els nostres interessos s'han ampliat per incloure l'educació de la primera infància, l'educació superior així com biblioteques, museus i entorns d'aprenentatge alternatius. El CAE és l'única organització professional purament centrada en l'impacte del disseny en l'educació. Des que em vaig involucrar activament amb el CAE fa ara sis anys, he trobat que les conferències, excursions i altres activitats s'ocupen dels problemes reals a un nivell més profund del que es pot trobar en qualsevol altre lloc. Estem units per la ferma convicció que

unes instal·lacions excel·lents, basades en la comprensió de la pedagogia que es desenvolupa dins d'elles, pot millorar el procés d'aprenentatge.

El tema de la CAE per al 2014 és El Valor del Disseny, prenent com a base el tema de gran èxit de l'any passat Pensament en Disseny i Creativitat. Aquest tema també connecta amb l'esforç actual de reposicionament de l'AIA, a través del qual es busca sensibilitzar el públic sobre el paper de l'arquitecte i advocar per la professió d'arquitectura. Avui en dia hi ha molts participants nous i diversos que busquen un paper en el procés de disseny i construcció, des de representants de propietaris a agents de posada en marxa a autoritats reguladores. Aquestes entitats i moltes altres han infringit de manera constant el paper tradicional de l'arquitecte. Com a resultat, el públic en general, i fins i tot molts dels nostres clients, tenen poca idea del que fem i el grau en què influïm en la forma final dels edificis. Un dels objectius d'aquesta conferència és donar les eines necessàries als nostres membres per explicar millor els beneficis del disseny de qualitat en l'àmbit de l'educació. I quina millor manera d'aprendre aquestes lliçons que escoltant-les de primera mà com ho farem els propers dies!

Poques ciutats al món demostren de forma tan consistent el valor del disseny com Barcelona. Amb una història que es remunta a l'època romana, es té una sensació palpable de tot allò que ha transcorregut abans. I tot i així, Barcelona viu sense por al futur i es reinventa constantment a si mateixa. Molts són conscients del ric patrimoni artístic de la ciutat, incloent els fills nadius Picasso, Miró i Dalí. Però igualment important és el paper de la ciutat com a motor empresarial i econòmic per al sud-oest europeu, impulsat per la creativitat i la passió dels seus ciutadans.

Dècades de repressió de la cultura i de l'idioma català van acabar amb la desaparició de l'època de Franco el 1975. Hi va haver un ressorgiment, el qual va estar encapçalat per la revitalització de l'educació i de les instal·lacions que alberguen aquesta activitat imprescindible. En el decurs de la nostra conferència veurem molts exemples d'instal·lacions educatives que van sorgir de les reformes educatives de l'època postfranquista. Tot i que les nostres excursions es centraran més aviat en el disseny recent, no ens oblidarem pas de dos edificis que han deixat una empremta indeleble en el món de l'arquitectura. En si mateixos aquests edificis estableixen Barcelona com

a una ciutat de visita obligada. Em refereixo, és clar, a la Sagrada Família de Gaudí i el Pavelló de Barcelona de Mies. El contrast entre ells – un d'ells etern i l'altre efímer – és fascinant. El primer ha estat en construcció durant els últims 132 anys, mentre que el segon va ser construït en uns mesos i no ha existit en absolut durant 56 anys. Estic emocionat de gaudir del privilegi d'experimentar tots dos de la mà d'experts.

La tasca d'organitzar una conferència com aquesta, en un país distant, només pot tenir lloc gràcies als esforços de moltes persones diferents, cadascuna de les quals ha hagut d'aportar el seu temps, habilitats i coneixements. M'agradaria donar les gràcies personalment al nostre president de conferència, Bob Moje i a l'assistent de presidència, Steve Shiver, i al cap del Departament d'Arquitectura de la Universitat de Virginia, Iñaki Alday, qui també exerceix a Barcelona i va proporcionar una ajuda inestimable. Els nombrosos membres del comitè, els quals podeu trobar en aquest fullet, han fet contribucions molt valuoses. El nostre personal de l'AIA ha romangut extraordinàriament pacient i tranquil a mesura que hem anat treballant i superant molts obstacles. Finalment vull agrair el generós suport dels

nostres patrocinadors, els quals han fet tot això possible. Quan us trobeu amb alguna d'aquestes persones en els propers quatre dies, si us plau feu-los saber quant aprecieu les seves contribucions.

Espero que la vostra estada a Barcelona i les noves amistats que establiu aquí us inspiraran per ser més actius en la CAE. El nostre èxit depèn de la diversitat d'idees, experiències i antecedents. Donem una benvinguda entusiasta a la vostra veu dins el nostre grup.

Atentament,



Paul C. Hutton, AIA, LEED BD+C  
2014 Chair, AIA Committee on  
Architecture for Education  
Cunningham Group Architecture  
Denver, Colorado



# CONFERENCE SCHEDULE

---

## DAY 1: SUNDAY, APRIL 27 WELCOME RECEPTION & KEYNOTE\*

---

### **3PM**

Hotel Check-In

### **LOCATION:**

Hoteles Catalonia Ramblas  
Pelai, 28 . 08001 Barcelona  
+34 93 316 84 00  
[www.hoteles-catalonia.com](http://www.hoteles-catalonia.com)

### **5:30PM- 6:00PM**

### **TRAVEL**

Metro/Walk to Pavilion

### **6:00PM-7:00PM**

Opening Reception  
Food and drinks provided

### **LOCATION:**

Mies Pavilion  
Av. Francesc Ferrer i Guardia 7  
[pavello@miesbcn.com](mailto:pavello@miesbcn.com)  
93 423 40 16

### **REMARKS:**

Welcome by Paul Hutton  
Conference Introductions  
by Bob Moje

### **7:00PM-8:00PM SESSION NO. 1:**

Keynote:

Catalan Culture and Architecture  
Josep Maria Montaner

### **8:00PM-8:30PM**

Return to Hotel

\* Events open to our guests



Photo courtesy of Richard E. Wood, Inc.

## DAY 2: MONDAY, APRIL 28 A DAY IN BARCELONA

---

### **BREAKFAST**

Breakfast at Hotel.

### **9:00AM- 9:30AM**

#### **TRAVEL**

Bus transportation to Session No. 2  
Fort Pienc Primary School

### **9:30AM SESSION NO. 2:**

Tour and Lecture

#### **LOCATION:**

Fort Pienc Primary School

#### **PRESENTER:**

Felip Pich-Augilera and  
Jordi Paris  
Pich Architects

### **10:45AM**

#### **TRAVEL**

Bus transportation to Session  
No. 3  
Institute for Advanced  
Architecture of Catalonia

### **11:00AM SESSION NO. 3:**

Tour and Lecture

#### **LOCATION:**

Institute for Advanced Architecture of  
Catalonia

### **11:00AM-12PM**

Tour

### **12:00PM-12:25PM**

Lecture

#### **PRESENTER:**

Vincente Guallart Furio

### **12:25PM-12:30PM**

#### **TRAVEL**

Walk to Session No. 4  
Bau, Centre Universitari  
de Disseny

---

**12:30PM SESSION NO. 4:**

Tour

**LOCATION:**

Bau, Centre Universitari  
de Disseny

**PRESENTERS:**

Josep Boncompte and  
Christian Giribets

**1:30PM-2:15PM  
LUNCH****2:15PM-2:30PM  
TRAVEL**

Bus transportation to Session No. 5  
Centre de Cultura Contemporània de  
Barcelona

**2:30PM SESSION NO. 5:**

Panel Discussion

**LOCATION:**

Centre de Cultura Contemporània de  
Barcelona

**PANEL:** Nathaniel Allen, Wolfgang  
Frey and Joan Sabaté  
**Moderator:** Paul Hutton

**4:20PM-4:30PM  
TRAVEL**

Walk to Hotel

**4:30PM  
BREAK****5:15PM  
TRAVEL**

Walk to Col·legi d'Arquitectes de  
Catalunya

**5:30PM-6:15PM\*  
WELCOME SOCIAL****6:15PM SESSION NO. 6\*:**

Panel Discussion

**PANEL:**

Carles Suero Marués  
Mercé Berengué and Jose  
Miguel Rodán  
Alfonso de Luna  
John R. Dale  
Claire Gallagher

**Moderator:** Enric Massip-Bosch

**8:30PM  
TRAVEL**

Walk back to Hotel

\* Events open to our guests

## DAY 3: TUESDAY, APRIL 29 EXPLORING CATALONIA

---

### **7:30AM-8:15AM BREAKFAST**

Breakfast at Hotel.

### **9:00AM-10:30AM TRAVEL**

Bus transportation to Session  
No. 7 - Manlleu  
Els Colors Kindergarten

### **10:30AM SESSION NO. 7:**

Tour

#### **LOCATION:**

Els Colors Kindergarten

#### **TOUR GUIDES:**

Carme Pigem  
Isabel de Azevedo  
RCR Arquitectos

### **11:30AM-12:30PM TRAVEL**

Bus transportation to Session  
No. 8 - Girona  
Escola Carles Rahola

### **12:30PM SESSION NO. 8:**

Tour

#### **LOCATION:**

Escola Carles Rahola

#### **TOUR GUIDE:**

Enrich Massip-Bosch Architect

### **1:30PM-1:45PM TRAVEL**

Travel to Session No. 9  
University of Girona - Law Facility

### **1:45PM-2:15PM PICNIC LUNCH**

---

**2:15PM SESSION NO. 9:**

Presentation and Tour

**LOCATION:**

University of Girona - Law Facility

**PRESENTER:**

Professor Alan Dunlop

Making Architecture for People Who  
are Multi-Sensory Impaired

**TOUR GUIDES:**

Carme Pigem

Isabel de Azevedo

RCR Arquitectos

**4:30PM-6:00PM****TRAVEL**

Bus transportation to Hotel

Dinner on your own



Photo courtesy of Emma Kirby

## DAY 4: WEDNESDAY, APRIL 30 BARCELONA AND WRAP-UP

### HOTEL CHECK-OUT

Please remember to check out of your room before we board the bus. Hotel Check out is 12 noon. We will not be returning until approximately 1pm.

### 8:00AM-9:30AM

Breakfast at Hotel.

### 9:30AM-9:45AM

#### TRAVEL

Metro to Session No. 10  
Sagrada Familia Church

### 9:45AM SESSION NO. 10:

Stand-up

#### LOCATION:

Sagrada Familia Church  
Sagrada Familia School

#### PRESENTER:

Josep Serrano Gómez

### 11:30AM-12:00PM

#### TRAVEL

Bus transportation to  
Session No. 11  
Torre Bellesguard

### 12:00PM SESSION NO. 11\*:

Lecture with Lunch

#### LOCATION:

Torre Bellesguard

#### PRESENTER:

Cristina Jover

### 1:15PM-1:30PM

#### TRAVEL

Walk to Escola Sant Gregori

### 1:30PM SESSION NO. 12\*:

Tour and Lecture

#### LOCATION:

Escola Sant Gregori

#### PRESENTERS:

Judith Leclerc and Jaime Coll,  
Coll-Leclerc Arquitectos

### 3:00PM

#### TRAVEL

Bus transportation to Hotel

### OFFICIAL CONFERENCE CONCLUSION

Bus transportation returns to the  
Hotel for those who must depart.

\* Events open to our guests



Photo courtesy of Richard B. Westerman

# DAILY DIGEST: DAY ONE

---

## THE VALUE OF DESIGN: ENHANCING EDUCATION THROUGH ARCHITECTURE

This initial session will frame the dialog around the conference theme, “Enhancing Education Through Architecture.” Following introductions by CAE Chair Paul Hutton and Conference Chair Bob Moje, Architect PhD and Permanent Professor at the School of Architecture of Barcelona, Josep Maria Montaner will provide an overview of the impact of Catalanian design traditions on educational facilities, and its impact on learning. He has authored some 35 books on architecture and won the National Award of Spain Urban Housing, Ministry to Journalistic Initiative in 2005, for his articles in the newspapers El País and La Vanguardia. Tours of the Barcelona Pavilion, designed by Mies Van Der Rohe, will follow.

### LEARNING OBJECTIVES

1. Learn about the rich history of educational facility design in the Catalonia region.
2. Understand the value placed on architectural design in Catalonia and Spain.
3. See how educational facility design in Catalonia has evolved over the last century.
4. Tour the Barcelona Pavilion and learn about it’s restoration.

## DAY 1: SESSION 01 - CATALAN CULTURE AND ARCHITECTURE

---

### **KEYNOTE: CATALAN CULTURE AND ARCHITECTURE**

Setting the context for the conference, this presentation will provide an overview of Catalan history, culture, architecture, and urban planning, pointing out the main characteristics. The re-emergence of Catalonia after the Franco era and the accompanying emphasis on education will be explained. The Catalan passion for art and design and its impact on architecture for education will be described. The emergence of Barcelona as an economic, cultural, and design center for southwestern Europe will be examined.



---

## **JOSEP MARIA MONTANER**

Josep Maria Montaner (Barcelona, 1954) holds a Degree in Architecture (1977) and a Ph.D. (1983) from the Barcelona School of Architecture (ETSAB). He is Permanent Professor of Theory of Architecture at the ETSAB and the co-director of the Master Laboratorio de la vivienda sostenible del siglo XXI. He has authored some 40 books on architecture and has been lecturer at the Architectural Association School of Architecture in London (1986-1987), received a scholarship at the Spanish Academy in Rome (1987), and has been a lecturer at the New School in New York (2007).

## PROFILE:

# MIES VAN DER ROHE PAVILION, BARCELONA

---

The Mies van der Rohe Foundation, directed by Giovanna Carnevali, is a not-for-profit public entity which was created in 1983 with the purpose of promoting the reconstruction of the German Pavilion that Ludwig Mies van der Rohe designed for the World's Fair of 1929 in Barcelona. Dismantled after the closure of the Expo, the Pavilion became a key reference point for Mies van der Rohe's career as well as the whole of 20th century architecture. The Foundation is an Architecture Incubator (research, critical knowledge and development of activities) and an Archive of Contemporary Architecture based on the organization of the European Union Prize for Contemporary Architecture – Mies van der Rohe Award since 1988.

**LOCATION:** Av. Francesc Ferrer i Guàrdia 7, 08038 Barcelona, Spain

**ARCHITECT:** Ludwig Mies van der Rohe

**COMPLETED:** 1929,  
reconstructed in 1986

**PHOTOGRAPHER:** Pepo Segura  
Images © Fundació Mies van der Rohe-  
Barcelona





# DAILY DIGEST: DAY TWO

---

## CENTRAL BARCELONA: EDUCATIONAL FACILITY STUDY TOURS AND THE IMPACT OF DESIGN ON CATALONIAN EDUCATIONAL ENVIRONMENTS

Participants will spend the day touring educational facilities, each designed by a different architect. Tours will include a presentation from the architect or project manager on the planning and design process. Each tour location will have a different focus including sustainability, urban context, and the important role of architectural design schools in regional culture. Head teachers or facility directors will comment on how well each building is performing and describe any challenges that have occurred since occupancy.

Later in the day, participants will attend a symposium discussion on Innovation and Sustainability in Educational Architecture Design at the The Centre de Cultura Contemporània de Barcelona (CCCB). Panel members will include Wolfgang Frey from Freiburg, Germany and Nate Allen from the USGBC's Green Schools Coalition. Mr. Frey will expound on the application of PassivHaus strategies to educational facility design, while Mr. Allen will update us on the ever expanding role of LEED in shaping schools in more than 20 countries. A representative from the Education Department of the Catalan Government will present the local point of view.

Wrapping up the day, a panel discussion focusing on the intersection of architectural quality and pedagogical innovation will be conducted at the Col·legi d'Arquitectes de Catalunya (Catalonia's equivalent to the AIA). Moderated by Enric Massip-Bosch, with two American and two Catalan architects, there will be brief presentations from each, followed by debate and questions from the audience.

## DAY 2: SESSION 02 - ESCOLA CEIP FORT PIENC

---

### LEARNING OBJECTIVES

1. Learn about funding mechanisms for public, private and public/private partnerships with respect to educational facility design and construction funding in Catalonia.
2. Learn about how the Spanish focus on sustainability and renewable energy has impacted the design of all types of educational environments.
3. Understand the impact of an urban context with centuries of history on the design of new buildings.
4. Hear about the differences between Spanish, northern European and the USGBC's approaches to integrating energy efficient features into architecture.

### TOUR AND LECTURE: FORT PIENC PRIMARY SCHOOL

A small unusual piece of property with a pedestrian street diagonally bisecting it were two of the design challenges that needed to be overcome. The shape and angle of adjacent streets, coupled with the need to integrate into the urban fabric, necessitated the volumes of the building be studied in their individual parts. Containing a nursery and two primary school programs, areas within the school were designated with urban place names including the Market, Supermarket, Library, Civic Centre, Kindergarten, and "Oldest" Housing. Outdoor play and fitness facilities are integrated into the design to take advantage of solar orientation. Solar radiation is captured where the functional requirements need it, mostly in winter, and the building protects from excessive solar radiation on the summer.



---

## JORDI PARÍS

Jordi París is the head of the Quality Management Team at Pich Architects in Barcelona. Founded in 1986, Pich-Aguilera Architects recently formed a new affiliated company in 2012, PibarquitecturaSix, of which Mr. París was one of six founding partners.

As the leader of quality management at both forms, he has managed collaborations and interdisciplinary approaches to the development of projects, expanding partnerships, research and implementation of ISO 9001 STANDARDS.

---

## FELIP PICH-AGUILERA

An accomplished architect, Felip Pich-Aguilera graduated from the Polytechnic University of Catalonia with a Specialty in Construction in 1986, and completed his Doctoral Thesis “Main social-economic factors that impact architecture, the case of Catalan Modernism and their time” at the Faculty of Economy of the University Ramón Llull. He is a member of the European Assembly of Students of Architecture (EASA), and has presented at annual meetings in Denmark (1984), Greece (1985), and Finland (1987). He is a founding member of the Association of Architects Without Borders (ASF-E) in Spain, the Young Catalan Architects Association (AJAC) and instigator of the activity “Meetings-Dialogue” in the Association. He is also a founding member of the Superior School of Architecture of the International University of Catalonia ESARQ/UIC and served as president of the school councils (1996-1999), Fourth-Grade Professor (since 2008), professor of architecture and sustainability Fourth-Grade, and director of the environmental and industrialization investigation curriculum.

A leader in sustainable design throughout Spain, he helped form the Architecture and Sustainability (AuS) Group that is integrated into the School of Catalonia Architects. He is the Spanish president of the International Initiative for a Sustainable Built Environment and World Green Building Council (GBC) in Spain. He serves as the Director and Chair of Industrialized Building and Environment (CEIM) organization and frequently presents at conferences, workshops and Schools of Architecture and institutions related to sustainability about sustainable construction and respect for environment in Catalonia, Spain and worldwide.

## PROFILE: ESCOLA CEIP FORT PIENC

---

The intention of the project proposal was to adapt to the block environment, consolidating the corner with a nearly continuous base at the ground floor with two different volumes on the floors above to integrate, in terms of massing and finishing, the intervention of the rest of the block. The school was constructed with a simple and efficient structural and materials system that made it possible to develop the design to incorporate efficient use of building areas, while providing comfort and flexibility for the users.

Building facades consist of ventilated industrialized cavity walls composed of an integrated assembly of industrialized cavity walls that form a continuous external overlay of polymer concrete sheeting in two colors that is not directly supported by the building structure, but rather fixed with a furring system. By separating the facade from the building mass, cross ventilation through the intervening space reduces solar heat transfer into the building, allows separated thermal expansion and contraction, and prevents moisture and humidity build-up. Carefully located sunscreens are composed of lattices formed with ULMA polymer concrete pieces within a metal frame. Responses to program, site and biosphere, supporting the school's mission by immersing students in the multiple layers of their environment on a daily basis.



**LOCATION:** Carrer d'Alí Bei, 75,  
08013 Barcelona, Spain

**ARCHITECT:** Pich Architects

**COMPLETED:** 2006

**PHOTOGRAPHER:** Adrià Goula



## DAY 2: SESSION 03 - INSTITUT D'ARQUITECTURA AVANÇADA DE CATALUNYA

---

### TOUR AND LECTURE: BARCELONA 5.0

The Self Sufficient City competition is emblematic of the emerging debate over the shape of our cities. By the year 2050, more than 70% of humanity will live in a city. The IaaC believes that global harmony is achieved through the right interaction of people, city and planet. Spain and Barcelona have a long tradition of rich urban environments, furthered in the last decades under a new democratic government.

What would be our answer to the question “Can the planet survive another 20th Century?” For most of us, the answer would be No. The Architecture of the future will be one of distributed systems for energy, information and production. We need to think of buildings as trees, and cities as forests. This presentation will reveal ideas and projects for transforming the urban habitat, based on the principles of local self-sufficiency and global connectivity.

### ABOUT INSTITUTE FOR ADVANCED ARCHITECTURE OF CATALONIA

The Institute for Advanced Architecture of Catalonia (IAAC) is a cutting edge education and research center dedicated to the development of architecture capable of meeting the worldwide challenges in the construction of habitability in the early 21st century. Based in the 22@ district of Barcelona, one of the world's capitals of architecture and urbanism, and located in an historic factory, IAAC is a platform for the exchange of knowledge with faculty and students from over 40 countries. Students work simultaneously on multiple scales (city, building, manufacturing) and in different areas of expertise (ecology, energy, digital manufacturing, new technologies), pursuing their own lines of inquiry according to the philosophy “learning out of making”, while taking advantage of the most advanced digital production laboratory of any educational institution in southern Europe.



### **MANUEL GAUSA NAVARRO**

(1983 – ETSAB), Ph.D. (2005 – ETSAB), by the Universitat Politècnica de Catalunya (European Mention). Principal Partner and Co-Director of Gausa+Raveau actarquitectura. From 1991 to 2000 Director of the magazine “Quaderns d’Arquitectura i Urbanisme”. Since 1994 Founding Member of Actar Projects Editorials. Honoured with the Médaille de l’Académie d’Architecture de France in 2000. From 2006 to 2008, Director of the Master Program “Intelligent Coast” hosted by Fundació Politècnica de Catalunya. Author of various articles and published works, such as “Metapolis Dictionary of Advanced Architecture”, “HiperCatalunya: Research Territories”, among others. In July 2012 he was appointed Dean at the IAAC.



### **ARETI MARKOPOULOU**

Ms. Markopoulou graduated from the Department of Architectural Engineering of Xanthi, DUTH (2005) in Greece. She holds a Masters in Advanced Architecture from IAAC (2006) with a related thesis in the field of “Prototypes of Urbanity: from Bits to Geography”. She has also studied at the AA, Architectural Association in London (Dlab 2009) and holds a Fab Academy diploma on Digital Fabrication (2011) offered by the MIT Center for Bits and Atoms. She has participated in research and projects such as “Hyperhabitat” at the XI Venice Biennale (2008), “Fab Lab House” at the Solar Decathlon Europe (2010), “Fabrication Laboratory” at the Design Museum of Barcelona, DHUB (2010) and “City Protocol” with the CP Society (2012). She is currently the Director of the Masters in Advanced Architecture at IAAC in Barcelona and initiator of Fab Lab Greece.



### **VICENTE GUALLART FURIO**

Vicente Guallart is chief architect of Barcelona City Council with the responsibility of developing the strategic vision of the transformation of the city and its major development projects. It was also the first manager of Urban Habitat, a new department encompassing the areas of urban planning, housing, environment, infrastructures and information technologies. Previously he founded the Institute of Advanced Architecture of Catalonia (IAAC) where he led projects such as Media House project (with MIT’s CBA), HyperCatalunya, and the Fab Lab House. His professional office, Guallart Architects, has developed projects such as the ports of Fugee and Keelung in Taiwan, the Sociopolis neighborhood in Valencia and Gandia Sharing Blocks. He is the author of books including Geolitics and The Self Sufficient City.

# PROFILE: INSTITUT D'ARQUITECTURA AVANÇADA DE CATALUNYA

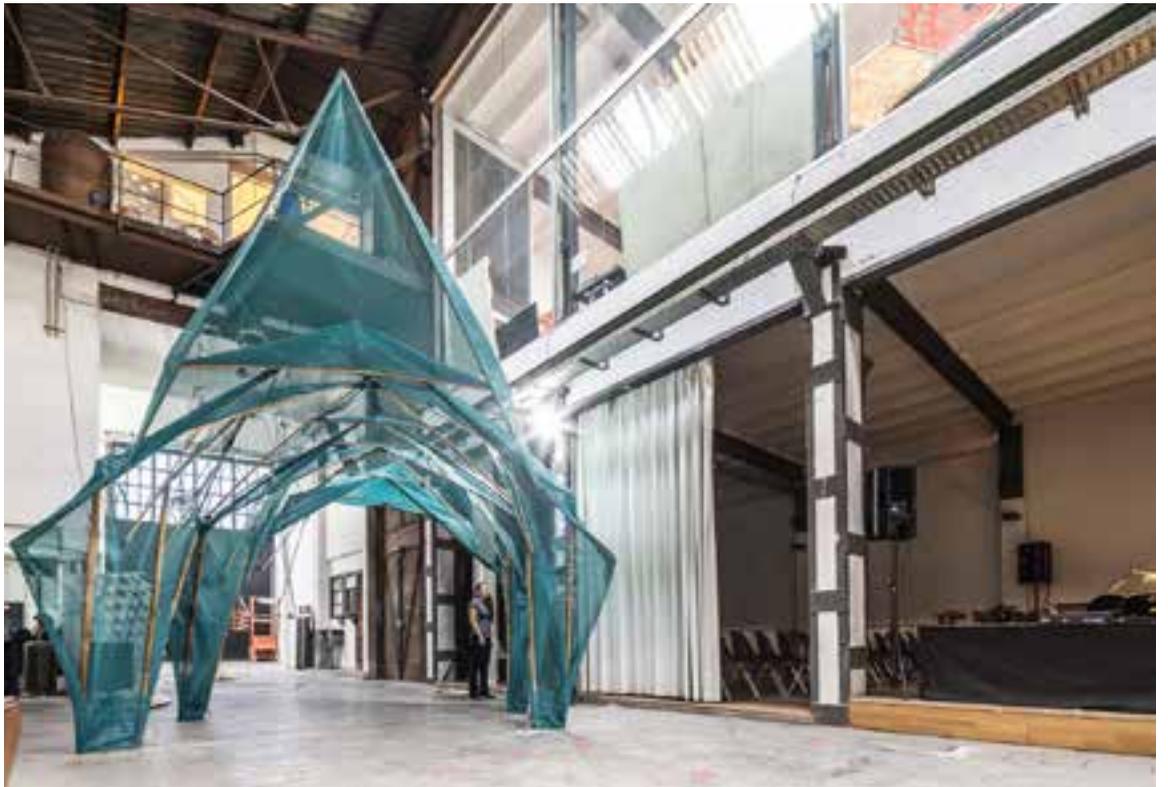
---

IAAC grants a Masters degree in Advanced Architecture in conjunction with the UPC Polytechnic University, with areas of concentration including: Intelligent Cities, Self Sufficient Buildings, Digital Matter, Design with Nature, and Advanced Interaction.

Since 2004 the IAAC has hosted the Advanced Architecture Contest (Self-Sufficient City, Self-Sufficient Housing and Self-Fab House) in order to promote discussion and research that encourages dialogue about topics and questions surrounding the concept of 21st century city.

## **ABOUT FACILITIES**

The Institute for Advanced Architecture of Catalonia is located in a refurbished building in the neighborhood of Poble Nou. The building has been completely renovated for modern use, but still maintains a romantic industrial atmosphere. Within IAAC the BCN Digital Fabrication Laboratory (Fab Lab) is a facility that uses digital last generation machines dedicated to the creation of prototypes and scale models for architecture, construction, industrial design and any activity that requires the connection from a computer to a machine in order to manipulate materials according to digital instructions. These laboratories are platforms for cooperation between people and organizations from different countries around the world, and are conceived and designed to promote the idea that anyone can fabricate/make anything anywhere in the world by sharing technological and social knowledge and by using digital manufacturing machines and advanced techniques.



# PROFILE: INSTITUT D'ARQUITECTURA AVANÇADA DE CATALUNYA

**LOCATION:** Calle Pujades  
102, 08005 Barcelona, Spain

**ARCHITECT:** Institute for  
Advanced Architecture of  
Catalonia

Images © Institute for  
Advanced Architecture of  
Catalonia





## DAY 2: SESSION 04 - BAU, CENTRE UNIVERSITARI DE DISSENY

---

### TOUR: BAU DESIGN COLLEGE OF BARCELONA

Five years ago, Bau, Centre Universitari de Disseny (Design College of Barcelona) opened its new campus, and now occupies an entire city block in the newly revitalized neighborhood of Poble Nou, District 22@, which was Barcelona's main industrial zone at the end of the 19th and beginning of the 20th centuries. This area currently features both old buildings, some still operating with their original purpose, others, like BAU, renovated and repurposed, standing side by side with highly technical modern buildings that are designated for a wide range of uses: dwellings – both ordinary and alternative, offices, university and industrial spaces, warehouses, restaurants, hotels, and shops. BAU opted for this area because the mix of activities and contrasts of architecture go hand in hand with the spirit of the school and its commitment to the environment and sustainability. The architects, Christian Giribets and Josep Boncompte, decided not to destroy the 19th century warehouse located in the interior center of the block in order to keep as much of the original elements as possible as a tribute to the neighborhood's industrial past. The main structure was renovated maintaining its wooden beams, skylights, and the cast-iron pillars that modulate the space. All the additional interiors were removed and the classrooms were located along the sides. An ample center area has been left as an open crossroads space that is adaptable to the various activities needed for this type of school; the inherent flexibility of the original industrial warehouse has been maintained.

**HOST:** Elizabeth Plantada, Boncompte&Font Arquitectes



### **JOSEP BONCOMPTE AND GUILLERMO FONT**

Josep Boncompte and Guillermo Font have been working together as a professional team in their Barcelona office since 1987. Their work includes new construction, renovation and interior design related to architecture. Although their specialty is residential architecture, they have also worked on projects dealing with conserving architectural heritage, commercial projects and projects for schools, wine cellars and offices.

Josep Boncompte teaches at Bau, University of Barcelona Design Center and directs the Master's Program of Restoration and Rehabilitation of Spaces and the Master's Program of Interior Design.



### **CHRISTIAN GIRIBETS**

Christian Giribets is the Marketing Manager of Bau Design College of Barcelona with the responsibility of developing the communication strategies and its major development projects. He is also responsible for the International Affairs coordination dealing with international schools and other institutions in order to ensure the cooperation of exchanges and the development of I+D projects. Bachelor in Advertising and PR and with postgraduates in Art Direction and Marketing, he has also been professor at the Bachelor Degree in Design teaching the subjects of Introduction to Marketing and Theory of Creativity.

# PROFILE: BAU, CENTRE UNIVERSITARI DE DISSENY

**LOCATION:** Carrer de Pujades,  
118, 08019 Barcelona, Spain

**ARCHITECT:** Boncompte&Font  
Arquitectes (Renovation)

Images © BAU





## DAY 2: SESSION 05 - CENTRE DE CULTURA CONTEMPORÀNIA DE BARCELONA

### PANEL DISCUSSION: SUSTAINABLE BUILDINGS, SUSTAINABLE STUDENTS

Educational facilities have frequently been leaders in the implementation of energy efficient and sustainable practices across the world. This is due to the long ownership of such facilities and the alignment with the educational mission. And yet not all educational buildings are as sustainable or energy efficient as we would wish. Obstacles such as construction cost, maintenance procedures, and political pressure limit adoption. This panel discussion will bring together experts from Catalonia, Germany, and North America to compare and contrast approaches to sustainability and education in different parts of the world.

From Washington DC and representing the United States Green Building Council, Nate Allen will provide an overview of the hugely influential LEED program as it moves into more than 100 countries. He will also focus on LEED for Schools and healthy environments. Finally he will inform us about the Green Ribbon Schools program and its impact on pedagogy.

Wolfgang Frey will review the PassivHaus approach to design and construction. Although it is known primarily as an approach suitable for residential and small buildings, it can be equally well applied to large structures used for learning. He will apply his Five Finger Principle to educational facilities.

Joan Sabaté will explain the Spanish and Catalan approach to sustainability and energy efficiency in educational buildings.



### PAUL HUTTON

Paul Hutton is a Principal at Cunningham Group Architecture and manages the Denver office. He has dedicated his 35-year career to integrating educational facility design and sustainable building practices. He uses daylight as a primary tool to reduce energy use and to improve occupant well-being in all his projects. Among Paul's notable school projects are the Aspen Middle School, Colorado's first LEED® Gold public school, numerous private and charter schools, and the Institute for Science and Technology at Cherry Creek Schools.

Paul has been actively researching, publishing, and speaking on school design trends for 30 years. He recently published research on both Net Zero Energy Schools and the Science Technology Engineering Math (STEM) movement in American education.



### **WOLFGANG FREY**

Wolfgang was born in 1960, and is a practicing architect from Germany. His firm, 'Architekten Frey', is located in Freiburg im Breisgau in Southwest-Germany and was founded by his father in 1959. Since then 'Architekten Frey' has realized many projects in Germany, France and in Switzerland. One of the focuses of Wolfgang Frey's work is socially and ecologically sustainable architecture and urban development. On behalf of the City of Freiburg he and his team represented such examples in sustainable architecture, at the Shanghai EXPO 2010, which were completed according to the so called 'Five Finger Principle'. From that time Wolfgang Frey has also been engaged in many different planning and construction projects in China.



### **NATHANIEL ALLEN**

Nate leads advocacy and policy initiatives for the Center for Green Schools at the U.S. Green Building Council (USGBC). In this role, he works closely with elected officials, federal agencies and national organizations to advance the vision of healthy, high-performing schools for all within this generation. In particular, Nate works directly with a network of leading mayors, state lawmakers and representatives on Capitol Hill to develop resources and promote programs that encourage green educational facilities for both K12 and higher education communities. Prior to joining USGBC, Nate taught history and political science at Winchester College in the United Kingdom. He holds a bachelor's degree in urban history from the University of Pennsylvania.



### **JOAN SABATÉ**

Joan Sabaté created and directs Sabaté Associates Architecture and Sustainability (SaAS), a studio dedicated to the development of projects with particular emphasis on aspects of technological innovation and sustainability. Sabaté has said that the architecture of our country (Spain) is suffering from economic stagnation and, above all, conceptual stagnation. He sees the crisis, however, as an opportunity to overcome the climate of anxiety and lack of ambition, he said, that now dominates the profession.

# PROFILE: CENTRE DE CULTURA CONTEMPORÀNIA DE BARCELONA

---

## **CENTER OF CONTEMPORARY CULTURE OF BARCELONA**

One of the most visited exhibition and arts centers in the city of Barcelona, The Centre de Cultura Contemporània de Barcelona (CCCB) is a public consortium created by the Diputació de Barcelona (Provincial Council) and the Ajuntament de Barcelona (Barcelona City Council). The CCCB organizes and produces exhibitions, debates, festivals and concerts, programmes film cycles, courses and lectures, and encourages creation using new technologies and languages. It promotes artistic research in fields such as multimedia, backs research into exhibition formats, exports its in-house productions to other national and international arts centres, museums and institutions, and generates debate, thought and reflection on the theme of the city and the public domain, as well as other issues of current affairs.

**LOCATION:** Carrer de Montalegre, 5, 08001 Barcelona, Spain

**ARCHITECT:** Josep Goday i Casals (1912) Helio Piñón and Albert Viaplana (1993) Martínez Lapeña-Torres Arquitectos (2011)

**AWARDS:** Fostering Art and Design (FAD) and City of Barcelona Architectural Prizes (1993)

**PHOTOGRAPHER:** Adrià Goula, A. Uriach, Pepo Segura



# PROFILE: CENTRE DE CULTURA CONTEMPORÀNIA DE BARCELONA

---

The Centre has a floor area of 15,000 square metres, 4,000 of which are devoted to exhibition space. An auditorium, bookstore and various multi-use seminar and lecture rooms. The CCCB occupies part of the old Casa de Caritat almshouse, built in 1802, and served in this role until 1957. The remodeled premises are the work of the architects Helio Piñón and Albert Viaplana and, in 1993, the project was awarded the FAD and Ciutat de Barcelona Architecture Prizes. A new project replaced the north wing, completing the original U-shaped layout with a 30-metre high prismatic volume, presenting a spectacular glazed façade that projects into the courtyard at the top. With its interplay of reflections, this new feature becomes a mirror of the surrounding rooftops and a prime lookout point over the city, as well as housing internal communications (halls, lifts and stairs).

In the spring of 2011, the CCCB expanded its facilities with the incorporation of the former theatre of the Casa de Caritat, which has recently been renovated. The project, designed by Martínez Lapeña-Torres Arquitectos, SL, forms a basement-level connection with the current centre, in the Pati de les Dones courtyard, and addresses the old theatre, built in 1912 by the architect Josep Goday i Casals, and part of one of the 19th-century cloisters of the former Hospital de la Caritat.



## DAY 2: SESSION 06 - COL·LEGI D'ARQUITECTES DE CATALUNYA

---

### **PANEL DISCUSSION: COLLEGE OF ARCHITECTS OF CATALONIA**

The College of Architects of Catalonia (COAC), formed in 1931, is a public corporation representing architects which oversees the defense of the social value of architecture and urbanism. Organized into five districts, Barcelona, Girona, Tarragona, Lleida and Ebro, each with their respective offices. The COAC is part of the Higher Council of Colleges of Architects of Spain. The institution has a research center of international Catalan architecture, consisting of the Historical Archive of nearly 120 professional architects, and the second largest architectural library in Europe, with approximately 198,000 volumes.

The Barcelona headquarters is a building built by Xavier Busquets i Sindreu between 1958 and 1962 on the corner of Calle Los Arcos, the Plaza Nueva and Calle Capellan, in the Gothic Quarter. The building contrasts sharply with the ancient and medieval environment and consists of a trapezoidal lower body and upper tower structure. The facade is decorated by a frieze which reproduces drawings by Pablo Picasso. In 1992 construction of an annex building, designed by Joan Rossello and Josep Maria Felix, was completed.



---

### **ENRIC MASSIP-BOSCH**

Born in Barcelona, Enric Massip-Bosch graduated from UPC-BarcelonaTECH. He is an Associate Professor at the UPC-BarcelonaTECH, Design Department. He obtained a Japanese Government Scholarship to do research at Tokyo Institute of Technology and worked at Shinohara Atelier (1987-1989), and has lectured extensively and participated in seminars in many cities around the world. His theoretical work has been widely published in magazines and books, including *Experimental Dwellings, 1971-1994* (Barcelona: Edicions UPC, 1996), *Architecture on the Horizon* (London: RIBA, 1996), *Concealed Complexities* (Tokyo: Toto, 1999), *Diagonal ZeroZero* (Barcelona: Lunewerg, 2011), *Kazuo Shinohara: Houses* (Barcelona: 2G-Gustavo Gili, 2011). He co-founded and served on the editorial board of *WAM-Web Architecture Magazine* (1996-2001). He is currently a member of the Advisory Board of Urban Habitat of the City Council of Barcelona and of the Agenzia Nazionale Italiana di Valutazione del sistema Universitario e della Ricerca (Italian Government). In 1990 he founded *EMBA\_ESTUDI MASSIP-BOSCH ARQUITECTES* ([www.emba.cat](http://www.emba.cat)) with which he has won many awards and competitions.



---

### **CARLES SUERO MARQUÈS**

Carles Suero Marquès is the Director of the Escola Garbí Pere Vergés Badalona. He has a degree in Physics, and started his career development in the education sector, working as a mathematics and physics teacher. After a number of years as a teacher he transitioned into consultant work in the knowledge management software industry, where as a strategic project manager he was responsible for the team that significantly increased international product revenues.

Five years ago Carles returned to education as a school principal. Among other projects he has succeeded in taking part in the most important iPad deployment in Spain, and in a 360° evaluation process of educational professionals, improving student results by transforming their didactical methodology in the classroom, and become an emulated educational model within Spain. Carles is a frequent speaker and writer in the area of information and communications technology related to education, and professional development for teachers and school leaders.



---

## MERCÈ BERENGUÉ AND JOSÉ MIGUEL ROLDÁN

Mercè Berengué and José Miguel Roldán both graduated in architecture at ETSAB-UPC, Barcelona, and are partners in the firm Roldán + Berengué (R+B). Having formed their firm in the early 90's they have won numerous awards for their work. Their studio is a multidisciplinary team of architects, engineers, artists, writers, and archaeologists.

Since 1998, Miguel Roldán has been the Director of Barcelona Architecture Center (BAC), which offers academic stays in Barcelona to foreign architecture schools that maintain exchange programs including ITESM, Monterrey (México), Texas A&M University (USA), Clemson University, (USA), the University of Texas at San Antonio, UTSA, (USA), Université de Montréal (Canada), and Universidad Iberoamericana de México, (Mexico). He has been adjunct professor at Clemson University School of Architecture and Texas A & M University since 1999. He was named the Thomas A. Bullock Endowed Chair in Leadership and Innovation at Texas A&M University during the 2012-2013 school year. He has been associate professor in the department ETSAB in Urban and Regional Planning (1988-1994), the Project department (1994-2000) and Master of Landscape Architecture (1991-1998). He also was professor of Projects in the Area of ESARQ-UIC (1997-99) and board member, Director of docent policy at ESARQ-UIC. Since 2012, he has been a current Member of the Architecture Commission of the Management of Hàbitat Urbà of the Barcelona City Council.

Mercè Berengué is a representative of the district of Barcelona in the Agrupació d'Arquitectes Urbanistes de Catalunya since 2007, a deputy member of the Technical Communication Commission for Regional Planning in the metropolitan area of Barcelona in representation of the COAC since 2012, and professor in the Department of Projects of the School of Architecture at the Universidad Internacional de Catalunya. From 1998 to 2000 she was the Director and Professor of Town Planning of the UIC and developed several planning projects in collaboration with the Barcelona's City Council. From 1990 to 1994, she worked with the Department of Architectural Design ETSAB and was a member of the court of PFC in the same school. She worked from 1989 to 1990 at SOM (Skidmore, Owings & Merrill) and Frank Gehry, in Chicago.



### **ALFONSO DE LUNA**

Alfonso de Luna (Barcelona, 1960) qualified as an architect at the Higher Technical School of Architecture of Barcelona (1990) and joined the professional studio of Manel Brullet in 1991. He has been professor of projects at the Escola d'Arquitectura of La Salle, of the Universitat Ramon Llull of Barcelona since 1999. The Brullet de Luna studio plans architecture that is based on the user: men and women are the core of its projects. Comfort, domesticity, functionality, spatial appropriateness, ergonomics and feelings are the basis of its work.



### **JOHN R. DALE, FAIA, LEED AP**

John Dale has built a career around the creation of a wide variety of high performance learning environments that are catalysts for community involvement and student achievement. In stark contrast to the proponents of the 'factory' model that has dominated the pre-K-12 education environment throughout North America for the past half century, Dale has been a passionate leader in the creation of unique, context based solutions that place emphasis on carefully scaled small learning environments as standalone neighborhood schools or the building blocks of larger comprehensive facilities. These projects link the idea of high performance settings with sustainable design practices and many of his projects are notable benchmarks in the evolution of the green school movement.



### **CLAIRE GALLAGHER, PHD, ASSOC. AIA**

Dr. Claire Gallagher, Associate AIA, Professor of Education, Georgian Court University, Lakewood, NJ, is a researcher and educator whose areas of expertise are pedagogy, school design, and architecture education. An award winning practitioner, her work with community-based design, interdisciplinary instruction, and children as advocates for change in the built environment has allowed her to participate in a variety of activities and with a broad array of individuals ranging in age from preschool children to lifelong learners. With experience teaching both design and teacher education, she has worked with museums, school districts, research groups, and individuals to bring architects and educators together in projects based in the U.S and abroad.

PROFILE:

## COL·LEGI D'ARQUITECTES DE CATALUNYA

**LOCATION:** Plaça Nova, 5, 08002  
Barcelona, Spain

**ARCHITECT:** Xavier Busquets i  
Sindreu (1958), Joan Rossello (1962)  
and Josep Maria Felix (1992)

Images © COAC







Photo courtesy of Richard B. Woodward

# DAILY DIGEST: DAY THREE

---

## EXPLORING CATALONIA: EDUCATIONAL FACILITY TOURS AND PANEL DISCUSSIONS OUTSIDE OF BARCELONA

Participants will depart Barcelona and travel northeast to Manlleu and Girona, where they will tour the award-winning Els Colors Kindergarten, IES Carles Rahola High School, and a new Law Building at the University of Girona. Presentations and panel sessions will focus on Spanish governmental requirements for educational facility design balanced against the local community's influence on each project. Students in each facility will be invited to interact with the group during the tours. Alan Dunlop of Glasgow, Scotland will present his latest projects that address education and supported accommodation services to children and young people with additional support needs, including autism.

### LEARNING OBJECTIVES

1. Learn about how design can enhance the lives of persons with unique needs.
2. See how individual communities can influence the design of their schools.
3. Hear about designing with sensory quality materials to benefit multiple sensory impaired students.
4. Understand how Spanish and Catalanian educational facility standards are implemented in various settings.

## DAY 3: SESSION 07 - GUARDERÍA ELS COLORS

---

### TOUR: ELS COLORS NURSERY AND KINDERGARTEN

Consideration of the environment is a key element in the work of RCR Architects. This preschool is adapted to its environment: the infant world, the universe where one comes to know things first, the discovery... so that the environment is brought into everyday contact with the children. Located in Manlleu, a municipality of the district of Osona, a few kilometers north of the city of Vic, the design is meant to be like a game, formed by the juxtaposition and superposition of simple pieces. The composition came from the identical size of the pieces forming the whole, and the identification of each piece by its individual color.

The spatial perception of the child is different; their point of view considerably lower than that of adults, and holding their heads up, they gather different perspectives that expand the relative size of objects. That's why in the Els Colors Kindergarten there are walls at odd heights, which may seem wrong to the eye of an adult observer, but nevertheless appear as normal to the children that give life to the building, those who make it possible, and ultimately with whom the building should communicate.

The classrooms, common areas and cafeteria have been distributed in two rectangular sections which are connected by a covered walkway that also provides access to an inner courtyard. The main entrance and a multifunctional space are located on the first floor. The structural vertical elements are made of steel, while horizontal structural elements are of concrete. Red, orange, and yellow colored glass walls help create a happy atmosphere where children's imaginations may flourish.



---

## ISABEL DE AZEVEDO

Isabel de Azevedo (1984), graduated as an architect in the Faculty of Architecture - University of Oporto, (Portugal) in 2008. She was an exchange student in Ingegneria Edile-Architettura - Università Degli Studi di Palermo (Italy) in 2007. She served an Internship at RCR Arquitectes from 2007 to 2008 and has been an architect in RCR Arquitectes from 2011, where she collaborated in different projects such as “El petit Compte” nursery school (Besalú), Schools group in Font Romeu (France) or La Sagrera Camí Comtal Park (Barcelona).

## CARME PIGEM

Carme Pigem is an architect since 1987, and in 1988 founded RCR ARQUITECTES, in Olot, together with Rafael Aranda and Ramon Vilalta. They are winners of the National Award 2005 of Architecture in Catalonia and Chevalier de l'Ordre des Arts et des Lettres 2008 of the République Française. Since 1989 they have been Consultant Architects to the Natural Park of the Volcanic Zone of La Garrotxa. During her career she has tutored in Project Studios from 1992-2004. RCR is the author of essays and articles about architecture and landscape and has won various international competitions (the most recent, the crematorium Hofhedide in Belgium, The Edge Business Bay in Dubai, Soulages Museum in France) and they have received distinctions for their work (most notably twice finalist in the Mies Van der Rohe awards in the European Union) what's being exhibited such as On-Site: New Architecture in Spain, in New York, and published (El Croquis, no. 138 (V), RCR Arquitectes 2003-2007. “RCR” by 3C Design, Korea.

# PROFILE: **GUARDERÍA ELS COLORS**

**LOCATION:** Carrer del Ter,  
56, 08560 Manlleu, Spain

**ARCHITECT:** RCR Arquitectes

**COMPLETED:** 2002

**PHOTOGRAPHER:**  
H. Suzuki





*Copyright: user Hoiol @ <http://en.wikiarquitectura.com>*





## DAY 3: SESSION 08 - INSTITUT CARLES RAHOLA I LLORENS

---

### TOUR: CARLES RAHOLA HIGH SCHOOL

The site for this high school rests on the border between a consolidated area to the north built in the 1960's and a very recent residential development still under construction to the south, shifting the demographic distribution around the school in a southerly direction. The parti recognizes this new condition by placing the building at the highest point of the site, constructing its longest side and main entrance facing to the south. Its public character and its role as an urban milestone were thus reinforced.

Typologically the building is based on a compact layout with spaces on both sides of a central corridor. This basic layout is broken at certain points to connect the corridor with the outside and let light in, creating spaces that double as meeting areas. The main entrance is a major disruption of the basic layout, also morphologically, in a way that is capable of connecting the street outside with the green areas inside.

The position of the building allows for an optimal orientation of the classrooms on the north side, enjoying smooth, consistent light, with no need of screens or solar protection. To the south spaces are located that have short-term occupancy, such as labs or meeting rooms, and have fixed metal screens for solar control on the exterior that vary according to the size and use of each room. Spaces such as the library, dining room and the drawing class, have two façades in order to improve their access to natural light.



---

## ENRIC MASSIP-BOSCH

Born in Barcelona, Enric Massip-Bosch graduated from UPC-BarcelonaTECH. He is an Associate Professor at the UPC-BarcelonaTECH, Design Department. He obtained a Japanese Government Scholarship to do research at Tokyo Institute of Technology and worked at Shinohara Atelier (1987-1989), and has lectured extensively and participated in seminars in many cities around the world. His theoretical work has been widely published in magazines and books, including *Experimental Dwellings, 1971-1994* (Barcelona: Edicions UPC, 1996), *Architecture on the Horizon* (London: RIBA, 1996), *Concealed Complexities* (Tokyo: Toto, 1999), *Diagonal ZeroZero* (Barcelona: Lunberg, 2011), *Kazuo Shinohara: Houses* (Barcelona: 2G-Gustavo Gili, 2011). He co-founded and served on the editorial board of *WAM-Web Architecture Magazine* (1996-2001). He is currently a member of the Advisory Board of Urban Habitat of the City Council of Barcelona and of the Agenzia Nazionale Italiana di Valutazione del sistema Universitario e della Ricerca (Italian Government). In 1990 he founded *EMBA\_ESTUDI MASSIP-BOSCH ARQUITECTES* ([www.emba.cat](http://www.emba.cat)) with which he has won many awards and competitions.

# PROFILE: INSTITUT CARLES RAHOLA I LLORENS

**LOCATION:** Carrer Joan  
Miró i Ferrà, 10, 17007 Germans  
Sàbat, Girona, Spain

**ARCHITECT:** Estudi Massip-  
Bosch Architect

**COMPLETED:** 2006

**AWARDS:** Finalist for  
Premis d'Arquitectura De Les  
Comarques De Girona

**PHOTOGRAPHER:** Pau  
Guerrero, Aleix Bagué





## DAY 3: SESSION 09 - FACULTAT DE DRET DE LA UNIVERSITAT DE GIRONA

---

### **PRESENTATION AND TOUR: MAKING ARCHITECTURE FOR PEOPLE WHO ARE MULTI-SENSORY IMPAIRED: THREE PROJECTS**

#### **Hazelwood School: Completed in 2008**

A school of children and young people who are blind and deaf, many are also physically handicapped and all have a cognitive impairment. Together they represent the most acutely disabled children on Glasgow's education role. There were no precedents for Hazelwood School. Although there are institutions for the blind or deaf which have parts devoted to the schooling of young people with dual sensory impairment, no stand alone school existed. Starting from scratch Alan Dunlop embarked upon two years of study and analysis and consultation, with clinicians, teachers, parents and the children, determined to create a school which would support the needs of the children and the aspirations of their parents. Hazelwood reduces the burden on teachers caring for children who can be difficult to reach, sometimes aggressive and highly emotional but where the pupils are now thriving.

#### **East Park: Starting on Site in 2014**

By focusing on international standards of best practice for the residential and educational care of young people with autism, Alan Dunlop has designed East Park to encourage free movement and to establish a sense of independence while ensuring a safe and secure learning and living space, a pleasurable environment for pupils and teachers with easy access to green space within a dense urban setting.

#### **Ochil Tower: Early Stages of Design**

This new school and residences with workshops and studios for young people with special needs including autism is set within a stunning rural landscape. The school is grounded in the ethos of the Camphill Movement which creates a community where people can live and work together in healthy social relationships.

These three projects, explained through development sketches, models, hand drawings and photographs by Professor Alan Dunlop will explain the process and confirm that young people who can be easily disoriented and confused and whose behavior can vary with boredom and anxiety and be aggressive can be helped and these characteristics alleviated within the physical environment by Architecture and careful design.



---

### **PROFESSOR ALAN DUNLOP FRIAS FRSA**

Alan Dunlop is a leading architect, urban designer and a respected educator. He has an international profile and has completed a successful term as the Distinguished Victor L. Regnier Visiting Chair in Architecture at Kansas State University and as the Mahlum Endowed Lecturer at the University of Washington.

He is currently Visiting Professor at Robert Gordon University, Scott Sutherland School of Architecture, External Examiner at XJTLU School of Architecture, Suzhou, China and External Reviewer of a new MSc in Architecture course for Liverpool University at their London Campus . He has taught at schools of architecture in USA, UK, China and in Germany and also lectured internationally and is currently undertaking a PhD on visual representation in architecture and urban design from the 14th century. A Fellow of the Royal Incorporation of Architects in Scotland and the Royal Society of Arts, he was educated in London and at the Mackintosh School of Architecture in Glasgow.

# PROFILE: FACULTAT DE DRET DE LA UNIVERSITAT DE GIRONA

---

## LAW FACULTY AT THE UNIVERSITY OF GIRONA

An old town on the southern part of the city of Girona, Montilivi is adjacent to a mountain of the same name. Master planned at the edge of the town, the University has a compact arrangement on the site in the style of many European campuses. Surrounded by large open spaces, internal campus circulation is pedestrian with vehicle parking located at the perimeter.

A new landmark on the campus, the building is located on a steeply sloping site at its southern edge. The design establishes a balance between the outside world and interior spaces through the sequence of flow through the site and building. Staggered floors built into the hillside reduce building mass from the exterior while providing interior spaces that are surprisingly expansive.

With a sequence of “full and empty” parts coupled with outdoor gardens, courtyards, corridors and windows, interiors are filled with natural light that converges downstairs in the heart of the building, creating “a pure space, dematerialized, transparent and bright.” On this floor there are computer rooms and various services for the faculty, and access to an underground tunnel to the campus library to the northeast. The separation of this space from other instructional areas ensures functionality and acoustical separation needed for various learning activities. Four different instructional area sizes, accommodating 30, 40, 50 or 100 people, allow for flexibility in scheduling and space use.



**LOCATION:** Carrer Universitat de Girona, 12,  
Gerona, Spain

**ARCHITECT:** RCR Arquitectes

**COMPLETED:** 2006

Images © RCR Arquitectes





Photo credit: [gettyimages.com](https://www.gettyimages.com)

# DAILY DIGEST: DAY FOUR

---

## BARCELONA: HISTORICAL EDUCATIONAL ENVIRONMENTS

Participants will begin the day at the Antonio Gaudí designed Sagrada Familia Schools, which were built to provide a space for the education of the children of construction workers employed on the building of the church. While touring the school and Sagrada Familia Church the lead structural engineer on the Church completion team, Josep Gomez Serrano, will review the challenges of completing a project designed more than a century ago. A special opportunity to tour a private residence, La Torre Bellesguard, also designed by Gaudí, will follow. The conference will conclude with a discussion on the effects of space on pedagogy at the Sant Gregori School.

### LEARNING OBJECTIVES

1. Understand the ongoing tension between the push to complete Gaudí's vision of the Sagrada Familia and the now historic buildings that have arisen within its proposed footprint.
2. See firsthand how an historic structure has been successfully adapted to serve educational purposes.
3. Hear how one school's emphasis on preparing students for life in Catalonia, Spain, Europe, and the world shapes its pedagogy and facilities.
4. Observe how a dynamic and vital educational institution has grown and adapted over time, constantly reshaping buildings to suit its needs.

## DAY 4: SESSION 10 - ESCOLES DE LA SAGRADA FAMÍLIA

---

### STAND-UP: SAGRADA FAMILIA SCHOOLS

Located on the grounds of the La Sagrada Familia Church, the Sagrada Familia Schools (School of the Holy Family) was built in 1908 and 1909 to provide a space for the education of the children of construction workers employed on the building of the church, and is considered one of the most important works of Antoni Gaudí i Cornet. Consisting of three classrooms, a hall, chapel and restrooms, the rectangular building measures only 36 by 72 feet. Suffering severe damage during the Spanish Civil War, restoration was commissioned in 1940 with limited funds, then again in 1943 by Francisco de Paula Quintana and Vidal. In 2002 the school building was moved to the outside of the temple, on the corner of the streets Mallorca and Sardinia.

Two to three overlapping layers of locally sourced brick form the exterior walls and are held in place with mortar. Three metal pillars on the interior support a double T-shaped beam, supporting a roof constructed of three layers of brick. The wavy walls and ceiling give the structure a sense of lightness but also strengthens the overall structural support system. This configuration also provided a unique way of removing rainwater from the roof. Three exterior areas for outdoor classrooms are covered with iron pergolas.

The simplicity of the design, with its gentle curves, have been cited as an inspiration by many notable architects including Le Corbusier, Pier Luigi Nervi, Félix Candela or Santiago Calatrava. Today the building is occupied by the offices of Sagrada Familia.

---

## **JOSEP SERRANO GÓMEZ**

Josep Vicent i Serrano Gómez was born in Barcelona in 1950 and is a noted Spanish architect. Having obtained his degree in 1973, he is professor of mathematics in the Department of Structures of ETSAB (UPC). He is part of the current constructor team for the completion of the Sagrada Família, led by Jordi Bonet i Armengol. He contributes to the structural analysis of Gaudí's temple, incorporating new technologies including CAD, computer simulation, 3D images and 3D modeling to develop a virtual plan of the temple with the goal of recreating and executing every detail per the draft prepared by Gaudí. Architect Magazine featured an article on the completion of the Church in January, 2014.

# PROFILE: ESCOLES DE LA SAGRADA FAMÍLIA

**LOCATION:** Carrer de Mallorca,  
401, 08013 Barcelona, Spain

**COMPLETED:** 1909

Images © Canaan CC BY-SA  
1.0





## DAY 4: SESSION 10 - BASILICA OF THE SAGRADA FAMÍLIA

---

### **BASILICA OF THE HOLY FAMILY**

The Basilica i Temple Expiatori de la Sagrada Família was inspired by Josep Maria Bocabella, a Catalan bookseller and founder of the Asociación Espiritual de Devotos de San José (Spiritual Association of Devotees of St. Joseph). Funded by donations, the apse was begun in March 1882 on the day of the festival of St. Joseph. Designed by the architect Francisco de Paula del Villar, the original intent was to construct a Gothic revival church. After resigning in March 1883, Antoni Gaudí i Cornet assumed responsibility for the design, which he significantly changed. Although Gaudí began work on the church in 1883, he was not appointed Architect Director until 1884.

According to an article in Time magazine by Margot Hornblower in 1991 entitled “Heresy Or Homage in Barcelona?”, Gaudí is said to have remarked: “My client is not in a hurry” when asked about the length of the construction period. In 1926 when Gaudí died the basilica was approximately 20 percent complete. Work continued after his death under the direction of Domènec Sugrañes i Gras until 1936 when it was interrupted by the Spanish Civil War. Although parts of the church were destroyed during the war, construction restarted in 1940 under the supervision of the architects Francesc Quintana, Isidre Puig Boada, Lluís Bonet i Gari and Francesc Cardoner. The present status of the design is based on reconstructed versions of the plans that were burned in a fire.

---

## **JOSEP SERRANO GÓMEZ**

Josep Vicent i Serrano Gómez was born in Barcelona in 1950 and is a noted Spanish architect. Having obtained his degree in 1973, he is professor of mathematics in the Department of Structures of ETSAB (UPC). He is part of the current constructor team for the completion of the Sagrada Família, led by Jordi Bonet i Armengol. He contributes to the structural analysis of Gaudí's temple, incorporating new technologies including CAD, computer simulation, 3D images and 3D modeling to develop a virtual plan of the temple with the goal of recreating and executing every detail per the draft prepared by Gaudí. Architect Magazine featured an article on the completion of the Church in January, 2014.

# PROFILE: **BASILICA OF THE SAGRADA FAMÍLIA**

**LOCATION:** Carrer de Mallorca,  
401, 08013 Barcelona, Spain

**ARCHITECT:** Antoni Gaudí

**COMPLETED:** on-going

**PHOTOGRAPHER:** Public  
Domain





The current director, Jordi Bonet i Armengo, has incorporated the use of computers, modeling and three dimensional printing since the 1980's. The central nave was completed in 2000 with the construction of the transept vaults and apse now underway. Since 2006 work transitioned into the crossing and supporting structure for the main tower of Jesus Christ as well as the southern enclosure of the central nave, which will become the Glory Facade. In 2010 an organ was installed in the presbytery by the Blancafort Orgueners de Montserrat organ builders.

In January 2014, Architect Magazine featured an article about the completion of the basilica titled "End in Sight; With newfound modeling capabilities and insight into Antoni Gaudí's vision, the chief architect of the Basílica de la Sagrada Família aims to complete the long-stalled project by 2026." The article detailed the methods currently in use to confirm Gaudí's original intent, as well as the controversy about pending impacts to adjacent structures.

## DAY 4: SESSION 11 - LA TORRE BELLESGUARD

---

The La Torre (Casa) Bellesguard was designed and built by Antoni Gaudí between 1900 and 1909 in the Sarrià-Sant Gervasi district of Barcelona. The site on which it stands was previously a country residence belonging to Martin of Aragon, a member of the Catalan royal dynasty who adopted it as his summer home in 1410. The term Bellesguard comes from the Catalan for “Beautiful View”, representing the fact that the building lies at halfway up the Collserola mountain overlooking Barcelona.

The Bellesguard is sometimes called the Casa Figueras because it was commissioned by Maria Sagués, widow of Jaume Figueras. Sagués was a longtime admirer of Gaudí's work and she commissioned him to design the building in 1900. Gaudí was assisted by Joan Rubio whilst Domènec Sugrañes i Gras, who created the various mosaics which adorn the house, took over as lead architect and completed the building in 1917 after Gaudí quit the project. The house, surrounded by gardens, is now private property.



---

## **CRISTINA JOVER**

Cristina is a professor at the Escola Tècnica Superior d'Arquitectura de Barcelona (ETSAB, Barcelona School of Architecture) at the Universitat Politècnica de Catalunya (UPC), where she holds a doctorate degree in Architecture. She is a lecturer, researcher and directs students working to obtain masters and doctoral degrees. Specializing in urban reuse, and urban and regional planning, Cristina has been the Secretary of State for Universities and Research, Ministry of Education since 2008, Director of ARCH group (current architecture, learning today, build today) linked to the UPC since 2009, and was a member of the Commission for Architecture of the City of Barcelona from 2009 to 2011. She has written extensively on Spanish architecture, and is frequently invited to speak at conferences.

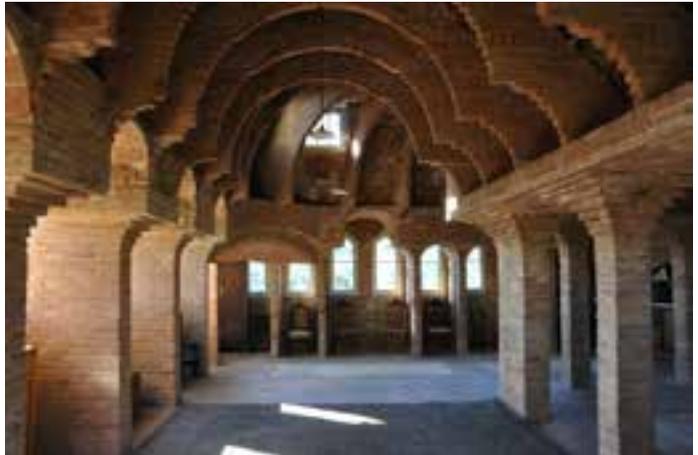
# PROFILE: LA TORRE BELLESGUARD

---

**LOCATION:** c/ Bellesguard 16-20  
08022, Barcelona, Spain

**ARCHITECT:** Antoni Gaudí

**COMPLETED:** 1909





## DAY 4: SESSION 12 - ESCOLA SANT GREGORI

---

### **SPACE AND PEDAGOGY – SANT GREGORI SCHOOL CASE STUDY**

The site visit will begin with a short video, followed by a presentation in their new auditorium. The presentation will explain the particular historical context of the School based on the pedagogical thinking of Alexander Gali (1886-1969) promoting activity and freedom in education, the specificity of its site overlooking Barcelona, “Bellesguard”, and its particular musical curriculum and how each of these influenced its recent architectural transformation. A tour of the recent additions to the school will follow.



### **JUDITH LECLERC**

Judith Leclerc, Lecturer of Architectural Design at the ETSABarcelona since 2010, holds a B.Arch. from McGill University in Montréal (1992). Her professional accomplishments include guest professor positions at the University of Montréal, the Design College of the University of Calgary, ETSARQ of the International University of Catalonia, the Barcelona Program (since 2011), and Arkitektskolen of Aarhus, Denmark. She has served as architect at ETSABarcelona (2002), and most recently has held appointments as Sheff Professor at McGill University (2013), and as a member of the jury of the European 10 competition.



### **JAIME COLL**

Jaime Coll (Palma Mallorca, 1964) earned a Ph. D. Architect from ETSABarcelona and has been awarded such honors as an Extraordinary Doctorate Award (1996), Fellow of the LeCorbusier Foundation in Paris (1993), and a Fulbright Postdoctoral Research Fellow which he spent at Columbia University in the City of New York. He has been a Senior Lecturer of Architectural Design at the ETSABarcelona since 1998.

### **MONTserrat GALÍ I IZARD**

Since 1992 Montserrat Galí Izard has been a professor director of the Escola Sant Gregori school. She has a Bachelor Degree in Art History from the Universitat de Barcelona (1982) and music degrees from the Conservatori Municipal de Barcelona.

### **JOAQUIM DAURELLA DE NADAL**

Joaquim Daurella de Nadal has managed the Fundació Sant Gregori (Foundation) since 2010. He has an extensive background as a general manager and business development in services companies, with wide experience in both initial design & start-up of innovative projects. Prior to directing the Sant Gregori Foundation he was General Manager at EIKONOS, where he led technology implementation at the Universitat de Barcelona Virtual (UBV).

# PROFILE: ESCOLA SANT GREGORI

---

## SANT GREGORI SCHOOL

The design of Sant Gregori School is a combination of the original building, designed in 1968 by Jordi Bonet, the work of Jordi Fugueras in 1972, and the most recent design of the firm of Coll-Leclerc in 2009. The existing school from 1972 was extended to incorporate a kindergarten cycle, a school of music, and indoor and outdoor performance and multi-use spaces. The building's plan encourages collaboration and cooperation among students and faculty through visual connections between user groups and spaces.

The building has a minimum footprint on the hillside, preserving its pine trees, while mediating with the existing building to improve visual connections with the street. The design incorporates the thermal inertia of the mountain against the excavated north façade, combined with a perfect north-south orientation, resulting in an A-level energy rating. The southern exposure of the classrooms is protected by overhangs and a pine-wood brise-soleil; a basketball court crowning the auditorium is wrapped in a steel mesh that allows vegetation to climb and create shadows, and playground spaces have been located on existing rooftops.

**COMPLETED:** 2009

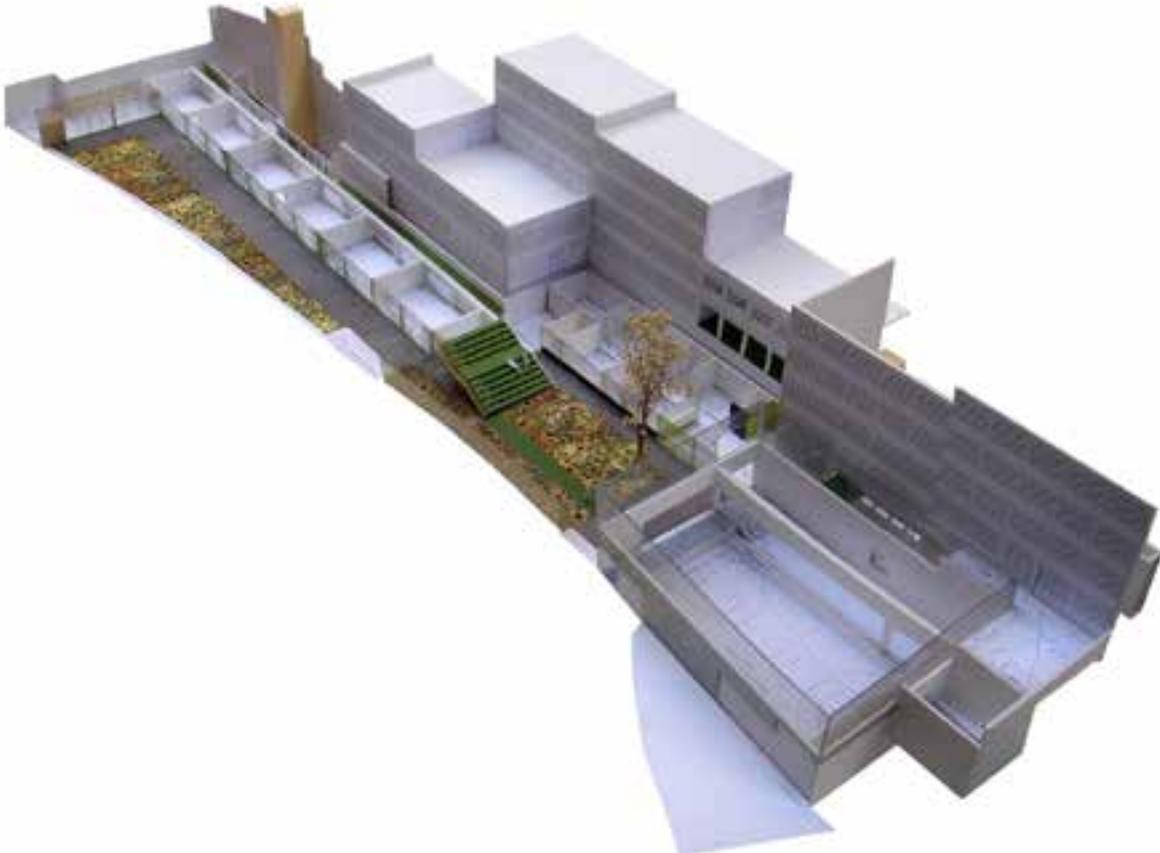
**AWARDS:** AIA National COTE Top Ten Green Project

AIA California Council – Honor Award

AIA California Council – Savings by Design Energy Efficiency Integration Award

California Preservation Foundation, Design Award

AIA San Francisco – Honor Award, Energy Efficiency Integration



# PROFILE: ESCOLA SANT GREGORI

## ABOUT THE SCHOOL

Escola Sant Gregori's foremost aim is to provide a solid foundation of knowledge and good study habits to their students. They assume this responsibility enthusiastically and are convinced that each and every one of their students has great potential for intellectual growth. In addition to this main goal, they commit to working alongside families in bringing up their children, guiding these students as they become individual persons and citizens.



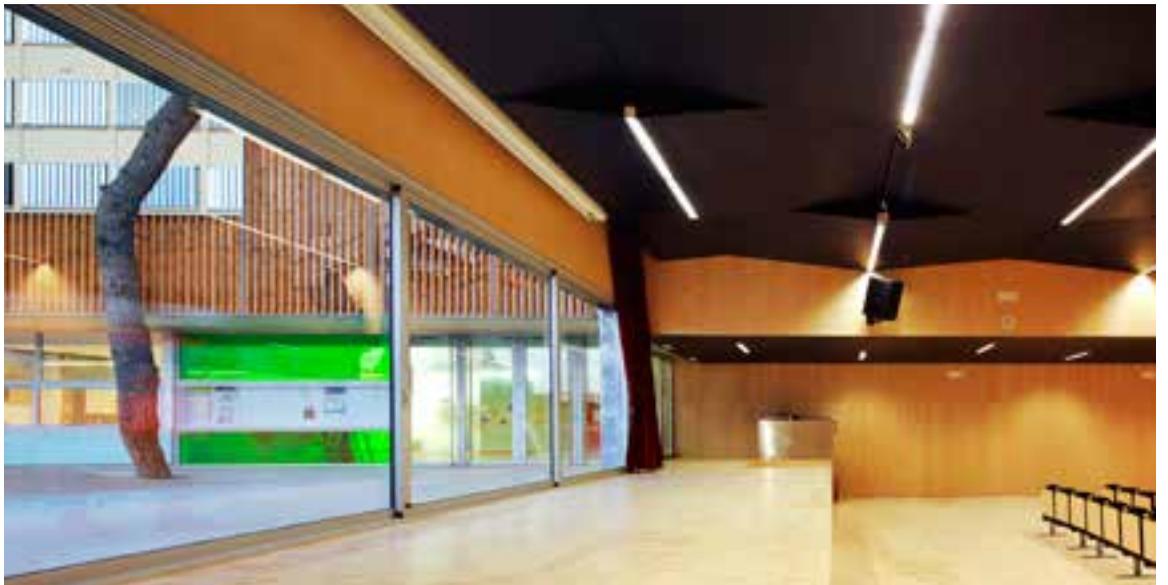




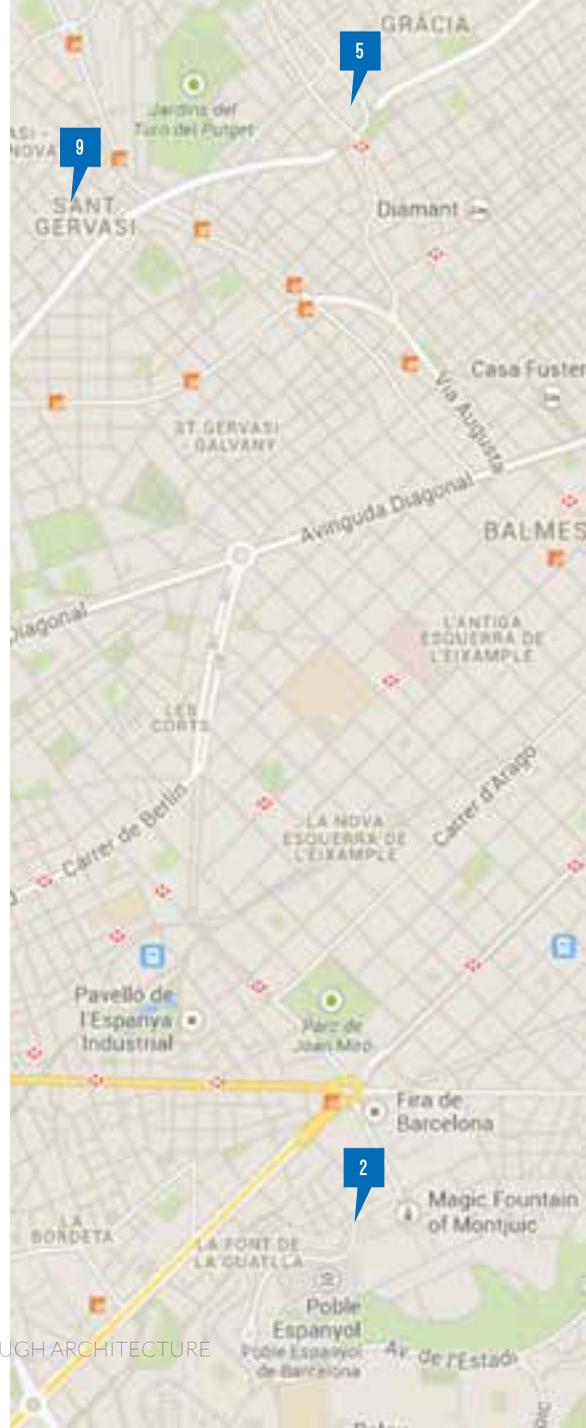
Photo credit: pichas.me

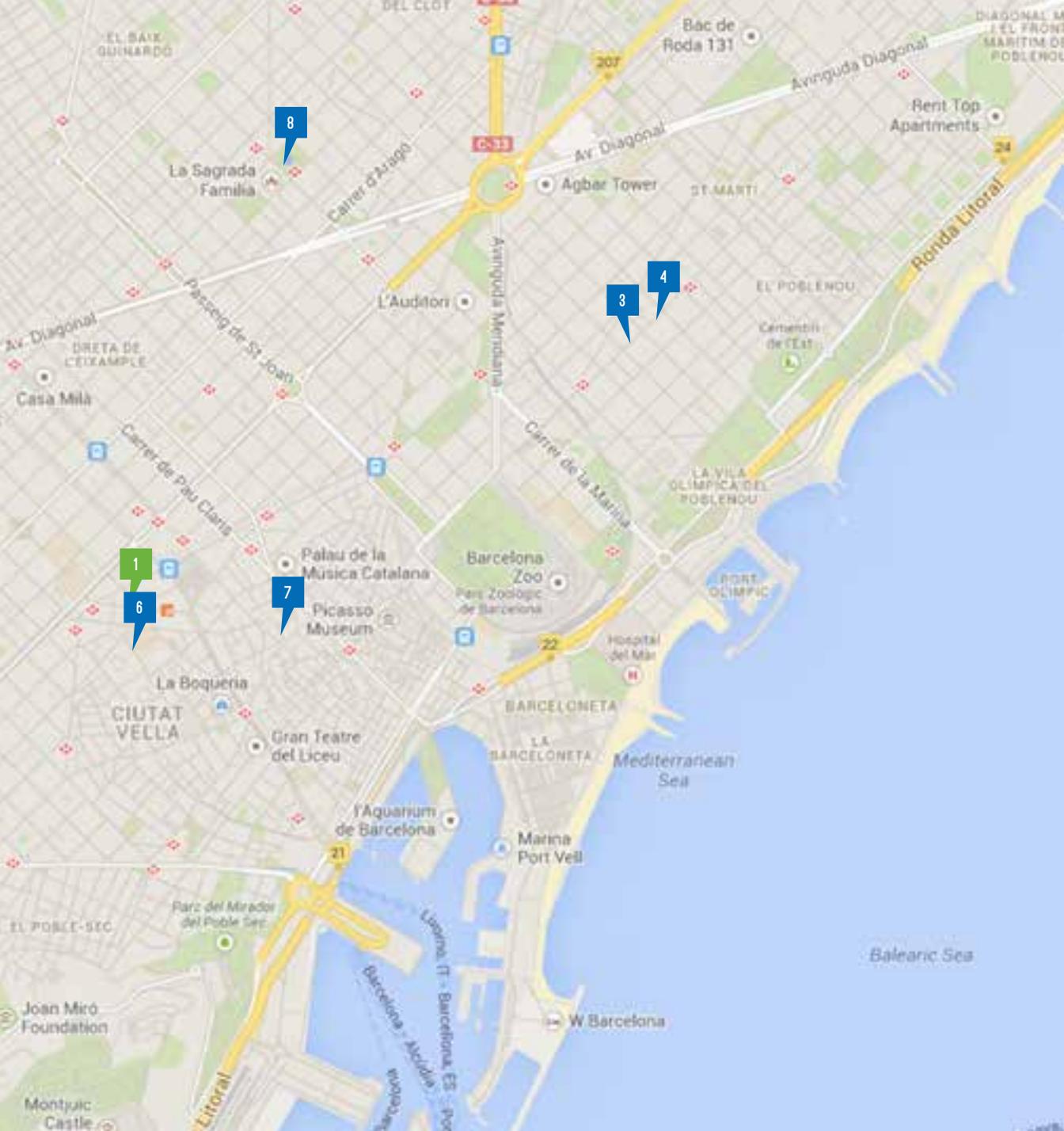
MAP(S)

---

- 1 HOTEL CATALONIA RAMBLAS
- 2 BARCELONA PAVILION
- 3 INSTITUTE FOR ADVANCED ARCHITECTURE OF CATALONIA
- 4 BAU SCHOOL OF DESIGN
- 5 JAUME FUSTER LIBRARY
- 6 CENTRE DE CULTURA CONTEMPORANIA DE BARCELONA
- 7 COL·LEGI D'ARQUITECTES DE CATALUNYA
- 8 SAGRADA FAMILIA SCHOOL AND CHURCH
- 9 SANT GREGORI SCHOOL

## DOWNTOWN BARCELONA





8

3

4

1

6

7

# WALKING TOUR

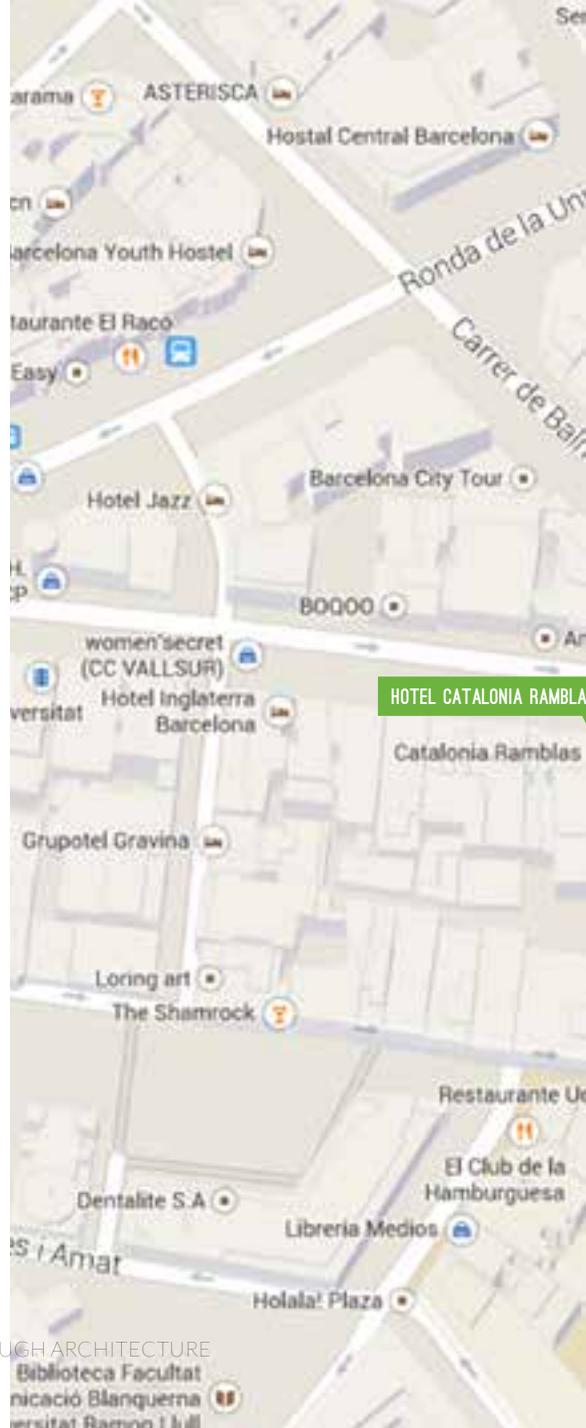






Photo Credit: alexander



● MANLLEU

● GIRONA

● BARCELONA



**THE AMERICAN INSTITUTE  
OF ARCHITECTS**

Committee on Architecture for Education



**WILLAMETTE  
PRINT & BLUEPRINT  
COMPANY, INC.**

*Client-Driven Service Since 1975*

