

CODA

CODA Computational Design Affairs

Research team inside LiTA Laboratory for innovation and Technology in Architecture from BarcelonaTech

Lightweight structures, computational design and digital fabrication

Research

Current

PhD programs in lightweight and timber technology and efficiency. Focus in bending-active implementation.

COST program Advanced Skins

Bending-Active IASS working group

Roland DG partnership. Digital fabrication research implementation in ETSAV and research

Direction and coordination of Parametric Architecture Master in BarcelonaTech

Scientific Publications

2014 AAG London. Surface curvature transformation of oblique planks grid.

2014 MARAS Ostend. Pliable structures with rigid couplings for parallel leaf-springs

2012 AAG Paris. Behavior and geometry based approach in elastic timber grid shell.

2012 Münster. ScalelessSeamless. Purpose driven computational design teaching: Embracing environment restrictions in computational design.

Articles in books and magazines

2014. Structures in building culture III: Steel Skeleton

2014. Yes, We are open. ETS Sevilla

2013. Architectural Design 83

2013. Arquitectura Viva 145

2013. Magazine AITIM 279

2012. Informacions UPC 254

2010. Habitar

2010 2G Dossier monográfico Venecia

Innovation projects

2014 Barcelona. Neula Gabarró Pavilion.

2014 Csorompusztá. Mochi. HelloWood.

2014 Barcelona. Garnica Pavilion. FAB10

2014 Cadaqués. Wedding Pavillion

2014 Barcelona. TorUS. UsFestival.

2013 Czorompusta. BigO. HelloWood.

2013 Barcelona. Geodesic HyPar . Elisava

2013 Barcelona. ChenGakstatter installation Barcelonatech.

2013 Madrid. Anticycloid structure. CEU SanPablo.

2013 Barcelona. Ametlla Pavilion. Barcelonatech.

2012 Bergen. SpringLeaf tower. Bergen Art School.

2012 Barcelona. Jukbiun. eme3 Arch Festival.

2012 Bergen. Euler Pavilion. BIWF.

2010 Barcelona. About Blank. Physiological Pavilion.

Teaching**University**

2014, 2013, 2012, 2010 Barcelona. Parametric Architecture at BarcelonaTech ETSAV
2013 Barcelona. Digital Fabrication at Escola. Massana

Invited Workshops

2014, 2012, Bergen International Wood Festival Bergen
2014, 2013, "Geodesic Shells" Hungary. HelloWood
2013, 2012, 2010 "Form finding" Algomad Computational Design forum
2013, 2012 "Kangaroo Intensive workshop" ControlMad. Madrid
2013. Vidrà IP Erasmus Intensive Programme,

Organised Workshops

2014 Barcelona. "Plywood building systems" FAB 10 Digital Fabrication
2014, 2012, 2010 Barcelona. FTH Featuring the Hits. Barcelonatech
2014, 2013, 2012 Barcelona. "TK ToolKit Computational Design". ETSAV
2013 Madrid. "Deployable shells with computational tools" CEU San Pablo

Lectures

2014 Bilbao. Egurtek symposium
2014 Barcelona. Timberweek conference
2013 Girona. TocantFusta conference
2013 Valencia. UniversityOfValencia
2013 Barcelona. Rhino user meeting
2012 Barcelona. Low-Tech Conference
2012 Norway. Bergen Art School.
2012 Madrid. Algomad Computational design forum.
2012 Granada. Taller de diseño paramétrico

**Invited
masterclasses**

2014, 2013, Barcelona, ETSAB. Timber constructions
2013 Barcelona. Solar decathlon workshop.
2013 Barcelona. ELISAVA master in sustainability
2013 Barcelona. ETSAV participation in Estructures lleugeres amb fusta.

Prizes

2014. 2 Honorary mentions in AndreuWorld competition
2014. Best timber teaching & best timber architecture from Gremi de fusters de Barcelona
2013 First Prize. Lightweight structures competition ILEK
2012 Second Prize. Eme3 Architecture Festival
2008 Honorary mention. 2G competition