Press Release
24 February 2022

The collaboration between WASP and IAAC in Barcelona becomes stronger with CRANE WASP architectural 3D printer

The use of advanced technologies for the construction and research of materials ensure Catalonia University students a practical approach projected into the future.

IAAC and CRANE WASP 3D printer video: https://youtu.be/d3cR33xsxcA

Meeting between WASP (World's Advanced Saving Project) and IAAC (Institute for Advanced Architecture of Catalonia, Barcellona) was born almost 4 years ago and since then the two companies have not stopped collaborating and developed research in the field of additive manufacturing of sustainable architecture.

IAAC develops technological and architectural solutions in collaboration with Industry partners to answer the current needs and challenges of our habitat. WASP, born in 2012, aims to respond to human needs with 3D printing. The house built at KM0, using natural materials from the surrounding area is a dream realized in 2018 with GAIA, then in 2020 with TECLA and, today, with two concept stores built on the Dubai beach for Dior.

The first 3D printed earth wall with embedded staircase was designed by IAAC and built using **Crane WASP** technology in 2019 at the end of the 3D Printing Architecture (3dPA). The desire to develop a new approach to architecture more in harmony with nature promotes exchange in different research areas which include the use of the CRANE WASP 3D printer, robotic manufacturing with new LDM WASP Extruder XXL, research on materials and performance-based design.

Today new developments that are based on mutual experiences, are born, they allow 3D printing Architecture students take advantage of the integration of IAAC's ongoing knowledge and investigation with the latest WASP technologies.

The first housing prototype 3D printed with CRANE WASP in raw earth will be inaugurated on February 28, at the end of the 3dPA program, at Valladura Labs in Spain.
You can watch the live broadcast here in a Zoom Meeting
Meeting ID: 915 2284 6754
Passcode: 3dpa

This collaboration is a brilliant example of the WASP's opening to Universities and Research Centers around the world to print together with the ways of the future.

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Notes to the editor

WASP

WASP- World's Advanced Saving Project is a company born in 2012 in Massa Lombarda (Ravenna- Italy) that designs, produces and sells 3D printers Made in Italy all over the world.

The wide range of WASP 3D printers has been developed to answer human needs: food, housing, health, energy, work, art and culture. Inspired by the Potter Wasp, which builds its own nest with material recovered from the surrounding environment, WASP was born with the aim of developing large-scale 3D printers, to build houses with natural materials and available on the territory. The main company target is to provide effective benefits to humans through technological innovation and research. In 2012 WASP presented its first printer, the Power WASP, but soon after the company characterized its range with the Delta line of small and large dimensions up to the generation of the **Delta WASP Industrial line** WASP 3MT, WASP 4070, and WASP 2040.

Today the **Delta WASP Clay line** is the market leader thanks also to the experience gained in the architectural field. These new 3D printers Clay optimize the LDM system by 3D printing fluid dense materials and industrial clays continuously and in large dimensions. In 2021, WASP has presented more technological advancement in the large 3D printers of the Industrial line and Clay line that meet the market demands for the extrusion of bio-polymers, super-technopolymers, recycled materials, pellets, natural material and raw earth, and industrial clay.

IAAC

3D Printing Architecture // OTF

The Institute for Advanced Architecture of Catalonia (IAAC) is a centre for research, education, production and outreach, with the mission of envisioning the future habitat of our society and building it in the present.
IAAC follows the digital revolution at all scales (from bits to geography, from micro-controllers to cities, from materials to the territory) to expand the boundaries of architecture and design and meet the challenges faced by humanity. IAAC is an experimental and experiential centre where one learns by doing, through a test methodology that promotes real solutions.
IAAC is an open, independent and radical non-profit foundation, with 20 years of activity; inspired by the values of Barcelona, the capital of architecture and design, where urbanism was invented and where a local high quality and innovation-oriented research is connected to an international network of excellence in technology, architecture and society fields.
IAAC is Education, with a wide range of pioneering master programmes, giving the next generation of architects and changemakers the space to imagine, test and shape the future of cities, architecture and technology.
This is also possible through the Fab Academy, a distributed educational model aiming to introduce anyone to Digital Fabrication. Not to mention the workshops and the short programmes, implementing global agendas developed through local solutions, such as the Global Summer School. IAAC is Innovation, with the Fab Lab Barcelona, the first and most advanced digital production laboratory in EU, and the Green Fab Lab, the first digital fabrication laboratory oriented to self-sufficiency: two places where you can build almost anything. After hosting the FAB10 in 2014, the 10th annual worldwide Fab Lab conference, Fab Lab Barcelona has consolidated his role within the Fab Lab Network as one of the worldwide leaders of the Digital Fabrication Revolution as well as the Coordinator of the Fab Academy Programme. IAAC is Research, thanks to a series of projects funded by the European Union and developed in collaboration with public and private European partners, oriented to explore the role of technology in our society and cities.

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