



Concrete Conference | Dubai, UAE  
**on Innovation** | 9-10 March 2022

# PROGRAM BOOK



## ABOUT THE CONFERENCE

On behalf of the ACI UAE Chapter Board Committee, it is our pleasure to invite you to the ACI Concrete Conference on Innovation, ACI - CCI 2022, which will be held in Address Dubai Mall, Dubai, UAE. The conference is organized by the ACI UAE Chapter in cooperation with ACI International. The theme of the conference is Innovation in Concrete Industry & Built Environment. Further developing the properties and performance of concrete by exploring new technical solutions and technologies is essential to meeting the demands of a changing world and to tackle modern challenges in the concrete construction industry.

The construction industry has seen a significant advancement in recent years through innovative initiatives, especially in terms of concrete. From using AI in designing concrete mixes to 3D printing, new concrete technology offers unlimited opportunities to shape the future of the concrete industry.

The ACI Concrete Conference on Innovation brings together engineers, architects, researchers, suppliers, producers, and academics to exchange their experiences and discuss innovative and emerging technologies in the concrete industry. It also explores how niche construction methods, new products, and research are developing concrete innovations to stretch mankind's imagination of the various uses of concrete, not only on earth, but also in outer space.

## CONFERENCE OBJECTIVES

- Provide a forum for the development and advancement of innovation initiatives in the concrete industry.
- Discuss challenges and difficulties of implementing emerging technologies in the concrete industry.
- Provide a place where students can meet industry professionals and discuss the latest technological advancements.
- Discuss international regulations and standards on 3D printing with cementitious material.
- Introduce the latest research on extraterrestrial construction (Moon and Mars).
- Highlight international efforts on low carbon concrete and sustainability.
- Support local research initiatives of ACI UAE Chapter 3D Printing Technical Committee on 3D printing technology based on local recourse.

## PROGRAMME

Please click [here](#) to view the Programme, if you would like more information regarding the session details, click [here](#).

## SPEAKERS & GUESTS

Please click [here](#) to view the list of speakers and guests.



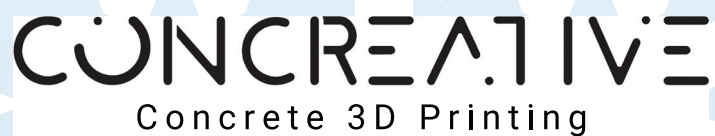
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## COMPANY PROFILES



COBOD International A/S, Denmark, is a construction robotics and automation company with 70+ employees; they are a world leader in 3D construction printers and technology. It is their mission to disrupt the construction industry on a global scale by lowering the cost of construction via robotics and automation. They made Europe's first 3D printed building in 2017 and since then, their printers have been used to create Europe's first two- and three-story buildings in Belgium and Germany, the first villa in Dubai, and the first 3D printed buildings in Africa. Together with GE Renewable Energy, U.S., they also 3D printed the first concrete windmill towers. Their printers are active on six continents and serve customers in Asia, the Middle East, Africa, Europe, the United States and Canada, and South America. Their customers include multinational companies like GE Renewable Energy; PERI; Dar Al Arkan, Saudi Arabia; L&T Construction, India; and JGC, Japan. For more information, visit <https://www.cobod.com/>.



**Building a better future**

CEMEX (NYSE: CX) is a global construction materials company that is building a better future through sustainable products and solutions. CEMEX is committed to achieving carbon neutrality through relentless innovation and industry-leading research and development. CEMEX is at the forefront of the circular economy in the construction value chain and is pioneering ways to increase the use of waste and residues as alternative raw materials and fuels in its operations with the use of new technologies. CEMEX offers cement, ready mixed concrete, aggregates, and urbanization solutions in growing markets around the world, powered by a multinational workforce focused on providing a superior customer experience enabled by digital technologies. For more information, please visit [www.cemex.com](http://www.cemex.com).

# CONCREATIVE

Concrete 3D Printing



**Mission:** Concreative is merging Architect's desires and Engineer's constraints by providing a full integrated solution of services with innovative technology and high-performance materials for concrete 3D printing.

**Vision:** Concreative believes that concrete 3D printing is the future of the civil industry; thus, they are investing tremendous efforts in their technology to become the global market leaders in concrete 3D printing.

**Values:** Concreative puts the quality, durability, and finishing of their concrete 3D printed structures on top of their priorities to exceed clients' expectations.

**Benefits:** This new technology also heralds projects that consume less raw material, are more reactive, cleaner, quieter, less grueling, and much faster. This unprecedented pace of change will be driven by 3D printers but also by digitalization and capacity of civil engineering companies to integrate this new model.

Company Information:

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ICC is a member-focused association with over 64,000 members. It is dedicated to developing model codes and standards used in the design, build, and compliance process to construct safe, sustainable, affordable, and resilient structures. ICC works closely with regulatory authorities to assess the market needs and provide applicable services through its family of solutions.

In addition to facilitating the development of the I-Codes, ICC offers a wide range of products and services to help jurisdictions build capacity for the effective implementation and enforcement of their building codes.

Many of these products and services are applicable even in jurisdictions not using the I-Codes. ICC's family of solutions comprise of:

- Product Testing and Evaluation
- Codes and Standards
- Training
- Personnel Certification
- Accreditation
- Software and Technology
- Consulting

The ICC MENA office in Dubai extends the mission and vision of its parent company by providing essential on-the-ground support to various organizations from designers, manufacturers, architects, Authorities Having Jurisdiction (AHJs), and more to benchmark the building safety standards across the whole ecosystem.

Their technical expertise covers building/fire safety, plumbing, mechanical, fuel gas, energy conservation, accessibility, and more.

For more information, kindly visit <https://global.iccsafe.org/>



Unidome is a global technology company with main offices in Germany and a branch office in United Arab Emirates, as well as international sales partners around the world. Based on more than 20 years of experience, the Unidome Group develops, produces, and sells innovative void former products for sustainable, safe, and future-oriented construction.

Unidome stands for material and cost savings on one hand and for increasing the safety, sustainability, and comfort of construction on the other hand. Scientific analyzes of force flows in structural elements, in addition to construction site experience, enabled the development of today's most effective void former technology, which has been used to build more than 20 million m<sup>2</sup> in more than 20 countries around the world.

In 2021, Unidome received an award titled "Leading Innovators of Sustainable Construction" from Corporate Vision. For more information about Unidome, please visit [www.unidome.de](http://www.unidome.de).



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