

# The Concrete Convention and Exposition — Fall 2018



American Concrete Institute  
*Always advancing*

## International Lunch

Sunday, October 14, 2018 • 11:30 am – 1:30 pm • \$30 U.S. per person

### Space and Prefab: International Museum of the Baroque

The American Concrete Institute is honored to welcome Rafael Barona Coghlan, to The Concrete Convention and Exposition in Las Vegas, NV, as the International Lunch Guest Speaker. The objective of Coghlan's presentation is to explain how one of the most complex concrete buildings in the world, the International Museum of the Baroque, came to fruition. Designed by Pritzker Prize winner, Japanese architect Toyo Ito, the International Museum of the Baroque was built entirely out of prefabricated concrete, under budget, and ahead of schedule. Ito's white concrete sculptural new museum, in Puebla, Mexico, was erected with a one-of-a-kind prefabricated sandwich wall. The exterior concrete façade walls become the structural solution to achieve exhibition halls that clear an 82 ft span. Seven hundred and two panels ranging between 12 and 28 tons were erected by 12 cranes working simultaneously to give shape to this building. The bubbledeck slabs and the perimeter walls were outfitted with embedded electrical and HVAC hardware. In 2015, Coghlan and his team engineered, fabricated, and erected what could arguably be one of the most complex concrete buildings in the world. The International Museum of the Baroque is 236,000 ft<sup>2</sup> and was built in 27 weeks.



Rafael Barona Coghlan is a founding partner of Consortium Danstek in Mexico City, which specializes in engineering and mass production of architectural and structural precast concrete. Coghlan has engineered precast concrete solutions for over 120 projects, ranging from small, socially driven community improvements to large-scale, mixed-use commercial urban redevelopments, including the Mexican Senate and Torre Mayer, the tallest building in Mexico City. In 2012, Coghlan venturing into biaxial prefabricated slabs and introduced the "bubbledeck" system in Mexico. He currently produces 1.6 million ft<sup>2</sup> of this product in a year. Rafael's constant drive for innovation and continuous challenge for the conventional has credited him with numerous international awards in the field of concrete prefabrication. Trained as an architect and with the discipline of an engineer, Coghlan has allowed designed to implement precast solutions previously thought impossible or economically impractical.

The Concrete Convention and Exposition will take place at the Rio All-Suites Hotel in Las Vegas, NV, October 14-18, 2018. Visit [www.aciconvention.org](http://www.aciconvention.org) before September 24, 2018, to register for the International Lunch at the convention!

