



**A COALITION OF THE NATIONAL READY MIXED CONCRETE ASSOCIATION**

**1.31.2020**

**Contact: Kevin Lawlor**

[Klawlor@buildwithstrength.com](mailto:Klawlor@buildwithstrength.com)

**202-253-6401**

**Product and Design Community partner with Carbon Technology on Future of Net-Zero Construction**

*Yale summit highlights path to construction industry reducing carbon-footprint*

**New Haven, CT** — Some of the world's leading carbon capture companies, the American Institute of Architects Connecticut, CT Green Building Council, and Build with Strength participated in a summit at the Yale School of Architecture on Friday, January 31 to discuss issues of sustainability, carbon sequestration, net-zero schools, and the movement of the design and construction industry towards a carbon positive future.

According to the Global Alliance for Buildings and Construction, the built environment accounts for 39% of global CO<sub>2</sub> emissions. The recent development of carbon capture technology has sparked a significant conversation on what the future of the built economy will look like.

Representatives from Blue Planet, CO<sub>2</sub> Concrete, CarbonCure Technologies and Solidia Technologies participated in a panel discussion on the future of carbon capture and the necessary role that it will play in society.

"CarbonCure is proud to be part of this esteemed panel speaking on innovations towards carbon neutral construction. We are excited to share how CarbonCure is on its way to achieving 500 megatons of CO<sub>2</sub> reductions annually, helping to decarbonize the built environment while positioning the concrete industry to lead the transition to the new low-carbon economy," said Sean Monkman, SVP Technology Development, CarbonCure Technologies. "Recycling CO<sub>2</sub> into ready mix concrete has not only proven to be sustainable, but our innovative customers can attest that it makes for smart business."

The discussion on embodied carbon and carbon sequestration was in the context of the prevalence of Net-Zero schools being designed and built across the United States. Schools and communities are leading the "net-zero" building boom that has grown in popularity in areas with a wide variety of geographic and socioeconomic features. Kenny Stanfield of Sherman Carter Barnhart Architects in Louisville, KY spoke to the design of the United States' first net-zero school, Richardsville Elementary in Bowling Green, KY.

“From a design perspective, we have an inherent responsibility to ensure that the end product is sustainable and has a limited impact on our environment,” said Stanfield. “With the development of carbon capture and sequestration technologies, the opportunities are endless. The full life of a building can become net-zero, from the materials to overall energy efficient building operations.”

Dr Chris Drew, Director of Sustainability for Adrian Smith + Gordon Gill Architecture (AS+GG) announced a concrete research project to develop a pathway to these net-zero carbon buildings. They are partnering with the National Ready Mixed Concrete Association, Ozinga Brothers (a concrete producer in Chicago), and a host of materials and technology providers to develop concrete mixes with low, zero or even negative carbon footprints.

While focused significantly on Architectural and engineering design, the Summit represents the future of the building industry in which design, materials and technology work simultaneously to reduce the construction industry’s carbon footprint.

“Concrete is the most common building material and provides the perfect reservoir to sequester billions (Gt) of CO2 on an economically sustainable basis for centuries. Blue Planet has one leading solution to capture and sequester this carbon in a manner that is both technically feasible and economically achievable,” said Brent Constantz Ph.D, Founder and CEO of Blue Planet Ltd. “The built environment can become an important solution to climate change.”

Learn more at [www.buildwithstrength.com](http://www.buildwithstrength.com)

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### **About Build with Strength**

Build with Strength is a coalition of the National Ready Mixed Concrete Association and works with communities, lawmakers, and industry employees to advocate for safer, sustainable building materials.

### **About CarbonCure**

CarbonCure is the world leader in CO2 utilization technologies for the concrete industry. Its retrofit technology chemically mineralizes waste carbon dioxide during the concrete manufacturing process to make greener and stronger concrete. So far, CarbonCure producer partners have produced more than 4 million cubic yards of low-carbon concrete.

### **About Blue Planet Ltd.**

Blue Planet economically captures carbon and criteria pollutants through a proprietary mineralization process and converts them into high-value aggregates for use in roadways and green buildings.

### **Sherman Carter Barnhart Architects**

Sherman Carter Barnhart Architects in Lexington, Kentucky, is a regional firm serving clients since 1979 in over ten sectors including P - 12 education, higher education, multi-family housing, corporate, government, hospitality, civic, and institutional markets.