

**TRACK NAME**

Green Building in the Desert - USGBC

**SESSION NAME**

Introduction to Construction Waste and Approaches to Management

**DATE + TIME + ROOM NUMBER**

Friday September Sept 5<sup>th</sup> – 10:10am – Room 102A

**SESSION DESCRIPTION**

Trash Talk: A Conversation About Construction Waste Management

The problem begins with a cultural set of assumptions that there is an unending supply of resources, and if those should run out, science will resolve any shortcomings. Our culture embraces convenience, disposability, and abundance, which also holds true in the design and construction industries. Buildings use a significant amount of natural resources, and are the single biggest users of electricity and producers of waste products. How this consumption is addressed in the building industry directly impacts the environment at a significant scale.

Contractors play a critical role in reducing and/or eliminating construction waste. Although these ideas are new to many in the construction industry, many on the forefront are already taking simple measures to drastically reduce the amount of waste generated on a construction site. These measures include the development of an effective construction waste management plan, education of subcontractors on waste management policies and practices, monitoring and inspecting the waste management process, incorporation of waste management policy enforcement into existing health and safety programs, and the coordination and tracking of recycled material sorting, collection, and removal.

Also essential to reduction or elimination of construction waste are the decisions made by the design team. When designers begin to bring a creative concept into the reality of the built environment, they can consciously take measures that drastically reduce waste at the point of fabrication and construction. One measure involves accounting for the life cycles of selected materials, such as specifying materials containing recycled content and choosing recyclable, reusable, or biodegradable materials. Manufacturing processes can also have a large impact on waste production. Another measure is understanding and working with the module. Different materials are supplied in different standard sizes. Awareness of these standards and accounting for them in a building design can drastically reduce the amount of scrap generated on site or at the point of fabrication. Designing with durable materials also eliminates the need for frequent replacement.

Construction generates 40% of the total waste stream that goes to Maricopa County landfills. Our team will discuss the opportunities for construction waste diversion strategies, including source reduction, site reuse and recycling.

## **PRESENTER(S)**

The Trash Talkers:

Tom Reilly, AIA, LEED AP, Architekton

A Phoenix native and ASU graduate, Tom Reilly AIA has been practicing sustainable architecture in the Valley for over 20 years.

Catherine Britt, LEED AP, Architekton

After working in Washington DC with her background in environmental policy, Catherine Britt earned her architecture degree at ASU. In addition to her role as a designer, she has been a leader of multiple initiatives to incorporate sustainable and green building principles into firm design process and ideology.

Carl Marcon, Caliente Construction

Carl has over 25 years of experience in the construction industry with a diverse background in educational, industrial, hospitality, retail, medical and municipal facilities. As Project Manager, he provides professional management and coordination of construction and provides motivation and direction to the superintendents, project engineer and project administration.

Brooke Bogart, RA, LEED AP, Ecological Environments As an award winning architect, Brooke's designs have been featured on the cover of Eco Structure magazine. She is the third LEED AP in the state of Arizona and has remained in the forefront of sustainable design. After practicing sustainable architecture for over nine years, she is now assisting other architects, designers, contractors and owners in the pursuit of green building design and LEED certification as Principal of Ecological Environments, LLC.

Julie Stanton, LEED AP, SitePlus

Julie is a graduate of the University of Illinois, and has worked for leading architecture and construction companies for more than 25 years.

Sandy Werthman, SitePlus

Sandy, a graduate of the University of Colorado, was a Vice President of Kitchell Contractors for 18 years before founding SitePlus. Their business focus is to help clients build green, be green and build a green brand.

Julie and Sandy are partners in SitePlus, which specializes in sustainability programs and marketing for design, construction and development companies.

## **CONTINUING EDUCATION CREDIT (CEU)**

N/A