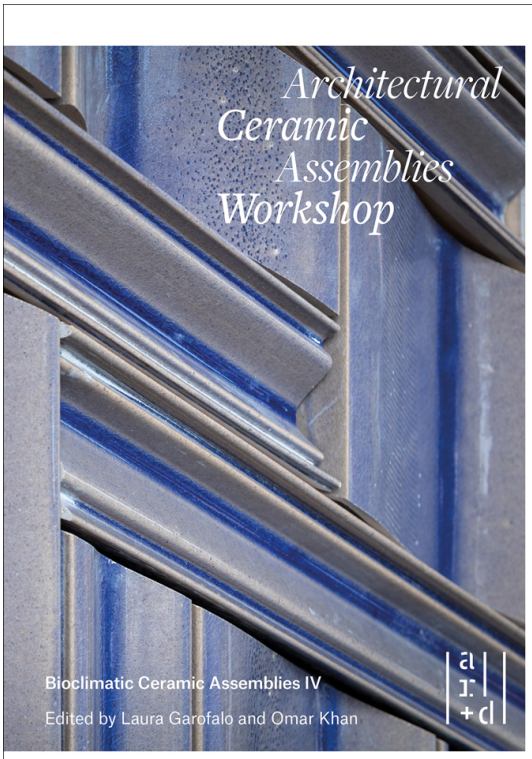
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Architectural Ceramic Assemblies Workshop

Bioclimatic Ceramic Assemblies IV

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Laura Garofalo

John Krouse

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- Contemporary design using an ancient material
- Architectural terra cotta material innovations
- Collaboration between academics, professionals and manufacturing
- Digital techniques in material fabrication
- Environmental and sustainability potential of the building with terra cotta

Architectural Ceramic Assemblies Workshop: Bioclimatic Ceramic Assemblies IVpresents terra cotta design research, conducted under the auspices of the annual Architectural Ceramic Assemblies Workshop (ACAW), between architectural firms and terra cotta manufacturer Boston Valley Terra Cotta. It chronicles the work of architectural firms Kieran Timberlake, Kohn Pederson Fox (KPF), HKS, Payette, Pelli Clarke Pelli, SHoP Architects, Skidmore Owings and Merrill (SOM), Studios Architecture and two academic teams from Alfred University and the University at Buffalo. The book presents a unique model for exploring the state of the art in terra cotta design through the production of experimental prototypes. These include rain screen facade systems, urban sound devices, structures, massive wall systems and furniture. Now in its fifth year, this invitation-only workshop has teams collaborate with the manufacturer to develop a design that engages bioclimatic concerns and pushes material and manufacturing possibilities.

Omar Khan (editor): Associate professor at the University at Buffalo (SUNY) where he is co-director of the Sustainable Manufacturing and Advanced Robotic Technologies (SMART) Community of Excellence, a university supported research initiative between the departments of architecture, engineering and management. His research is located at the nexus of architecture, digital fabrication and smart technologies.

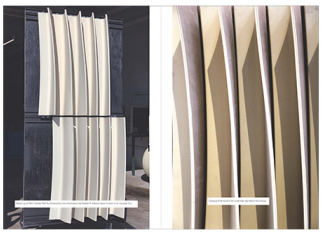
Laura Garofalo (editor): Associate professor at the University at Buffalo (SUNY). Her research, pedagogy, and practice focus on the conjunction of natural and architectural systems.

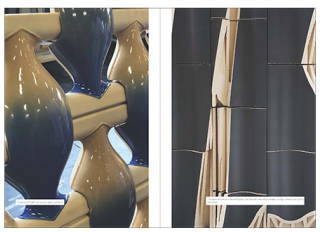
John Krouse (foreword): President and CEO of Boston Valley Terra Cotta, the largest producer of architectural terra cotta in the United States. Holds his B.S. in Ceramic Engineering and minor in Ceramic Sculpture from Alfred University.

Sara Lopergolo, Selldorf Architects (interview): Partner at Selldorf Architects with over 25 years of experience who first joined the firm in 1994. Her professional background includes urban planning at Koetter Kim & Associates in England, as well as extensive experience in all aspects of cultural, commercial and residential projects.

Dr. William Carty (interview): Professor and J.F. McMahon Chair in Ceramics at the Inamori School of Engineering, Alfred University. His research group is focused on ceramic processing and microstructure evolution and the connection to material properties.







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