

Alexandros Tsamis

Assistant Professor, School of Architecture; Graduate Program Director; Associate Director, Center for Architecture, Science, and Ecology (CASE) at Rensselaer Polytechnic Institute

Troy, NY, US

Architect focused on composite materials, building energy systems and advanced manufacturing technologies for the built environment.

Biography

Alexandros Tsamis is an Architect and Assistant Professor at the school of architecture, RPI. He currently serves as the Graduate Program Director of Built Ecologies MS & PhD and the Associate Director of CASE. He earned his PhD in Architecture, Design and Computation and Master of Science (SMArchS) in Design and Building Technology at the Massachusetts Institute of Technology (MIT). Previously he served as the post professional graduate program director in Design at Adolfo Ibanez University in Chile, he has taught at Massachusetts Institute of Technology and the Knowlton School of Architecture, Ohio State University. With a working definition for the Built Environment as the Effective Distribution of Material, Energy and Information in Space for Cultural Affect, Tsamis works at the intersection of Design and the Architectural Sciences. He focuses on next generation composite materials, climate adaptive - cyber physical - energy systems and advanced manufacturing technologies, as they relate to advances in Computation. He investigates issues associated with, Material, Energy and Information ecologies of the built environment at scales that range from that of the object to that of the territory. Tsamis' research work has been published widely in peer reviewed Journals and conferences. He has design/technology patents for innovation in materials. His design work has received several awards in international architectural competitions, first prize at the International Architecture Competition "London Architecture Gallery, first prize in the international design competition" Gillette Landmark and in the "Design of Ephemeral Structures" for the Athens Olympics. His design and theoretical work has been published internationally including Architectural Design (AD), the Journal of Architectural Historians, Thresholds, Pidgin, 306090, Architecture in Formation and exhibited widely, including the Museum of Design in Barcelona, the biennale of Venice, the biennale of architecture in Chile, the biennale of architecture in China, RIBA London and the Byzantine Museum of Greece.

Areas of Expertise

Ecology, Composite Materials, Manufacturing Technologies for the Built Environment, Climate-Adaptive Energy Systems, Tectonics, Material and Energy-based Computational Design

Education

Massachusetts Institute of Technology

Ph.D. Tectonics and Digital Computation

Massachusetts Institute of Technology

SMArchS Architecture, Design and Technology

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