

Sustainable Housing: Reducing the Carbon Footprint of the Residential Sector

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Abstract

Sustainability is a term that refers to the use of resources by the current generation that does not reduce their availability for future generations and does not contribute to climate change. Thus, a community or society that practices sustainability can continue to do what it has been doing forever. However, current practices in many countries, including the U.S., are not sustainable. Given the increasing global population, the currently expanding global economy, and thus the increasing global demand for resources, ways to imitate natural systems are optimally implemented when all resources are used in a process, there is no waste material, and the carbon footprint is minimized. In such a system, materials are constantly recycled, and they serve as inputs to the human economy or nourishment to the ecosystem, thus ending the linear process currently used for material acquisition and use. The goal of this presentation is to cover various aspects of sustainable housing, including waste management at the construction site, energy efficiency, the use of renewable energy, and green building.



Biography:

Joseph Laquatra, Ph.D. is a professor emeritus in the Department of Design and Environmental Analysis at Cornell University. He focuses his teaching and research efforts on sustainable aspects of housing. He has studied indoor environmental quality since 1986 and has presented his findings at international and national conferences and has published them in numerous journals. His outreach efforts on this topic have been directed to homeowners and homebuilders. He has also taught builders, engineers, architects, and government officials in Poland, Russia, and Japan. Joe is a past President of the Housing Education and Research Association and served two terms as Chair of the National Consortium of Housing Research Centers. He is listed in Who's Who Among American Teachers and Educators, Who's Who in America, and Who's Who in the World.

Speaker Publications:

1. "Gold Nanoparticles Supported on Carbon Derived from Solid Olive Waste for Epoxidation of Cyclooctene"; Asian J. Chem. / 2018 / 30(8) /pp 1731-1735

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