



**Keynote Speaker**  
**Rafat Siddique**

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Professor Rafat Siddique is Dean, Research and Development & Senior Professor of Civil Engineering at Thapar Institute of Engineering and Technology (Deemed University), India.

He is Editor of the Journal of Construction and Building Materials (Elsevier), Journal of Materials in Civil Engineering (ASCE), and European Journal of Environmental and Civil Engineering (Taylor & Francis).

He is among top 15 academicians in the world with total citations of 20000+ having H Index of 76 in the area of sustainable construction materials. He has published 200+ Q-1 Journal articles and 80+ conference papers. He has been Invited Professor to number of universities in UK, USA, Australia, France, Germany, Thailand, etc.

He has been sought-after speaker, and been to several countries; Australia, Bangkok, Belgium, Botswana, Burkina Faso, Canada, China, Czech Republic, Finland, France, Germany, Hong Kong, Indonesia, Italy, Japan, Malaysia, Mexico, New Zealand, Poland, Portugal, Saudi Arabia, Singapore, Spain, Sri Lanka, Switzerland, Turkey, United Kingdom, UAE, USA

**Keynote Presentation Title: Utilization of Waste Materials and Industrial By-Products in the Development of Sustainable Greener Concrete**

**Abstract:** There is exponential growth in the generation of waste materials & industrial by-products from manufacturing processes, service industries and municipal solid wastes. As a result, solid waste management has become one of the major environmental concerns in the world. With increasing awareness about environment, scarcity of space for landfilling and due to its ever-increasing cost, waste materials and by-product utilization has become an attractive alternative to disposal. Utilization of such materials has gained significant importance in the development of sustainable greener cement-based materials. There are several types of waste materials/by-products such as fly ash, bottom ash, foundry sand, scrap-tires, cement kiln dust, waste glass, recycled plastic, dredged materials, MSW ash, etc.

Extensive work has been reported on the influence of such materials on the fresh, strength and durability properties of concrete. Use of such materials in concrete not only makes it economical, but also helps in reducing disposal and environmental related issues. This presentation is about the possible uses of some of these materials in the development of sustainable greener concrete.

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