

**UKIERI-UGC WORKSHOP
(UW-2019) ON
“ALKALI ACTIVATED EARTH
BUILDING PRODUCTS UTILISING
NON-ORGANIC SOLID WASTES”**

<http://cst.iisc.ac.in/uw2019>

15 February 2019

Jointly organised by

**Department of Civil Engineering and
Centre for Sustainable Technologies (CST)
Indian Institute of Science (IISc)
Bangalore, INDIA**

**Department of Architecture & Civil Engineering,
University of Bath, U. K.**



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Venue:
**Indian Institute of Science
Bangalore, INDIA**

Sponsor
UKIERI-UGC project: Developing earth-based
building products utilising solid wastes

UKIERI
UK-India Education
and Research Initiative

Introduction

The building products are derived mainly from the mined resources using energy intensive processes. Building construction results in environmental damage and pollution due to emissions. There is a need for minimising the use of mined natural resources for the manufacture of building products. The UKIERI-UGC funded project explored the potential of utilising solid wastes, generated by industrial and mining activities, in conjunction with soil to manufacture novel wall construction products for affordable energy efficient buildings. Alkali activated building products were developed under the joint R&D collaborative efforts from the Indian and UK universities. Characteristics of compressed earth blocks and rammed earth utilising alkali activated process and the non-organic solid wastes (NOSW) were examined. The workshop aims at discussing the details of the technologies developed and the characteristics of the new building products.

Objectives

The workshop aims at dissemination of the knowledge generated in the collaborative R&D. The workshop will provide a Forum for information dissemination and exchange, discussions and debate on alkali activated building products, with a main focus on alkali activated products, processes and technologies. The workshop will be biased towards discussions on technologies exploiting utilisation of non-organic solid wastes in construction materials. The workshop intends to bring together the academics, engineers, architects, professionals and students interested in green and sustainable construction practices.

Topics

The topics covered in the workshop include:

1. Sustainable construction
2. Fundamentals of alkali activation and alkali activated processes
3. Energy and environmental aspects of Geopolymer based products
4. Potential of non-organic solid wastes in the construction sector
5. Geopolymer concrete
6. Alkali activated CEB and rammed earth using NOSW's
7. Thermal performance of the new building products

Key Date:

Registration for participation in the workshop:
1 February 2019

Registration:

Kindly fill the registration form and forward it to the address mentioned. No registration fee, the number of participants restricted to 100. The applications will be screened, and shortlisted participants will be intimated

Registration Form

UKIERI-UGC WORKSHOP: UUW-2019

15 February 2019

Name: _____

Organisation: _____

Qualification: _____

Previous experience: _____

Full postal address: _____

Tel.: _____

E-mail: _____

Please return the completed form to:

E-mail:

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