UNIVERSITY OF SURREY

DAD Project

Design, Assemble & Dismantle

Full-scale Physical Models in Civil Engineering Education

DAD Project

Space Structures Research Centre has been organising the 'DAD Project' since 2014 which is about the Design, Assembly and Dismantling of a full-scale lattice structure. A teaching kit consisting of prefabricated tubular steel members, as well as the required connectors, is used for the DAD Project. The group participants, design and construct their own structure using all or part of the provided structural kit. The group performance is assessed in terms of:

- Creativity in Design
- Construction Management Skills
- Health and Safety Considerations

The DAD Project can be modified to suit the participants at different levels, i.e. postgraduate or undergraduate students. A simpler version has been offered as a part of the 'Promotional Programmes' of the University of Surrey for secondary school students.

Novum Structures, a leading company in the field of spatial structures, sponsors an annual prize awarded to the group of undergraduate students achieving the best overall performance in the Project.

More details about the DAD Project are published in a paper entitled 'Benefits of Full-scale Physical Models in Civil Engineering Education' **epubs.surrey.ac.uk/812215**. An introductory video entitled 'DAD Project 2015' is available on YouTube **youtube.com/watch?v=54VYE9bVhXY**.

A group of secondary school students participating in the DAD Project in July 2015

Examples of structures constructed by the first year undergraduate students in June 2016

The DAD Project can be organised for participants from other educational establishments, as well as participants from industry (CPD Course or Away Day activities).

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