

## Venue

Universitat Politècnica de Valencia  
Building 6G, floor 2, room 2.11  
Camino de Vera, s/n  
46022 Valencia



In the frame of the workshop the presentation of results of the SlimAPP work will give a deeper insight into the project.

All aspects of composite slim-floor design will be considered. Furthermore advantages of slim-floor solutions regarding LCA as well as optimized solutions and built examples will be presented.

## Project Sponsors

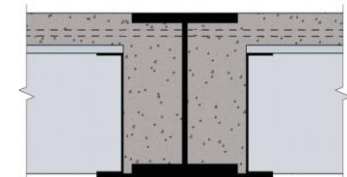
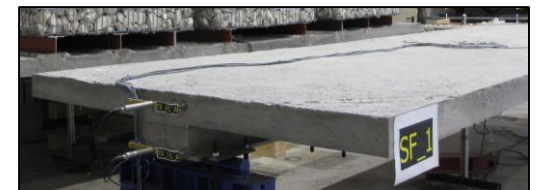
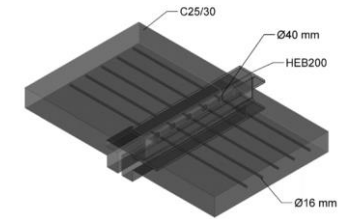


## Partners



# SlimAPP Workshop

**Slim-Floor Beams**  
Preparation of Application rules  
in view of improved safety,  
functionality & LCA



Valencia, Spain  
29<sup>th</sup> of June 2018

## Content

The RFCS-CT-2015-00020 project SlimAPP aims to increase the competitiveness of steel in buildings by developing a holistic approach for slim-floor systems, considering all aspects of efficient design also in view of sustainable constructions, which especially takes into account the composite shear connection between steel beam and concrete floor slab in normal conditions.

Within a holistic approach considering all aspects of optimal technical and sustainable design, special focus is given to the composite action by concrete dowels with reinforcing bars through web holes. For normal design, new rules will fill the gap where slim floor solutions are currently not covered in Eurocode 4. Based on this new ULS and SLS design methodology, "pilot" projects will allow optimization of different composite slim floor solutions taking account of lifecycle assessment.

This project is supported by the Research Fund for Coad and Steel – RFCS.

Participants of the workshop will receive all presentations as a handout.

## Program

10:00 – 10:10 *University of Stuttgart*

**Slim-floors: recent developments and trends**  
Rules in view of improved safety, functionality and LCA for practicing engineers

10:10 – 10:40

**Novel connections for slim-floor beams**  
Experimental observations and conclusions

10:40 – 11:10 *University of Bradford*

**Flexural behaviour of slim-floor beams**  
Experimental observations and conclusions

Coffee Break

11:30 – 12:00 *University of Trento*

**Deflection and vibration behaviour of slim-floor beams**  
Experimental observation and conclusions

12:00 – 12:30 *Steel Construction Institute*

**Ultimate limit state design**  
Development of application rules

12:30 – 13:00 *ArcelorMittal Belval and Differdange*

**Lifecycle assessment of slim-floor solutions**  
Example calculations and presentation of software tool

13:00 – 13:30 *Lindab Buildings*

**Built examples and optimization by improved solutions**

## Registration

<b>Surname</b>	_____
<b>First Name</b>	_____
<b>Company</b>	_____
<b>Position</b>	_____
<b>Address</b>	_____
<b>City</b>	_____
<b>Zip Code</b>	_____
<b>E-Mail</b>	_____

The participation is free of charge

Registration requested up to 1<sup>st</sup> of June 2018

## Contact

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