Proceedings of the COST Action TU1403 – Adaptive Facades Network Final Conference

Facade 2018 - Adaptive!

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It allows researchers, engineers and scholars to jointly develop their own ideas and take new initiatives across all fields of science and technology, while promoting multi- and interdisciplinary approaches. COST aims at fostering a better integration of less research-intensive countries to the knowledge hubs of the European Research Area. The COST Association, an international not-for-profit association under Belgian Law, integrating all management, governing and administrative functions necessary for the operation of the framework. The COST Association has currently 36 Member Countries.

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Activity report Working Group 4 (WG4) - Dissemination and Future Research

Pottgiesser, U., Knaack, U., Louter, C.

Tasks and Deliverables

Working Group 4 was responsible to organise and manage the overall dissemination, networking and communication of the COST-Action, including the website, the Short Term Scientific Missions (STSM), the Training Schools and symposia for Early Career Investigators (ECI), industry workshops, and related surveys to link the COST action to stakeholders in the industry. It also took care of the coordination of international conferences, publication of journal papers and guidelines and finally the initiation and coordination of the applications for future research projects within the Action and by connecting with other networks and the related academic environments. The tasks and deliverables of Working Group 4 were the following, which were all fulfilled:

T 4.1 Organisation and coordination of Action events

D 4.2 Organisation of all meetings and related minutes reports

D 4.5 Organisation of Action Mid-term Conference (beginning of 3rd year)

D 4.6 Organisation of Action Conference (end of the 4th year) and production of proceedings

Until the end of the Action in November 2018 the following meetings and conferences took place:

- 6 ad-hoc meetings of work group members in Hamburg, Detmold, Bern, Dessau, Liège and Lisbon from 2015-2018
- 2 industry workshops in Delft 2015 and Lisbon 2018
- 1 Mid-term conference and proceedings (Booklet 2) in Munich in November 2017
- 1 Final conference and proceedings (Booklet 4) in Lucerne in November 2018

T 4.2 Educational Pack and Training School

D 4.3 Organisation of 3 Training Schools (1 per year except the first year) and related material published

D 4.3 Educational pack content definitions and development

Until the end of the Action in November 2018 two Training Schools took place, one Training School had to skipped due to budget shortage:

- Training School 1: September 2016 in Hamburg (HafenCity University)
- Training School 2: September 2018 in Belgrade (Belgrade University)
Both Training Schools attracted more than 35 participants each and can be considered as very successful. Among them about 85 Early Career Researchers (ECI), who took part in specific scientific workshops at the beginning of the Training Schools to present and discuss their research. The Educational Pack was developed as individual lectures for the Training Schools with contributions from each Working Group. It consists of 20 lectures with more than 800 slides that are available digitally at the Action Website with a password for the 210 Action Members. Separate documentations of the Training Schools are accessible online.

An overview of Educational Pack, Training Schools, ECI-Workshops and STSM is given in the final publication of Work Group 4 (Booklet 3.3 Research and Education), published open access.

T 4.3 Coordination of Short Term Scientific Missions (STSMs)
D 4.4 Completion of at least 20 STSMs by the end of the Action

Until the end of the Action in November 2018, 31 Short Term Scientific Missions (STSM) were initiated through 6 separate calls for STSMs. The STSMs involved 46 individuals, 16 different EU countries, 1 near neighbour country (AU) and 34 different institutions. Furthermore, The STSMs have contributed to the MoU deliverables and have resulted in joint journal and conference publications, new collaboration initiatives and active contributions to the Education Pack. The STSM represented all Working Groups and the results are summarized in the final publication (Booklet 3.3 Research and Education).

T 4.4 Database of research project and experimental facilities in the domain of the Action

The database of research projects and experimental facilities in the domain of the Action was produced for in the beginning of 2015 and was presented during the 3rd meeting in Delft as a poster exhibition and as a print version (Booklet 1 Adaptive Façade Network - Europe), published open access.

T 4.5 Creation and management of Action website
D 4.1 Creation and maintenance of the Action specific website

The Action specific website was installed in 2014 and is available under: http://tu1403.eu/. It will be further used and contains the produced materials such as database, booklets and Education Pack.

T 4.6 Dissemination through journal, conference, trade publications and website

Until the end of Action the following conferences were organised or attended by Action members with lectures and keynotes:

- Advanced Building Skins, Graz 23-24/04/2015 (Keynote Andreas Luible)
- International Conference on Architectural Envelopes (ICAE), San Sebastian 22-24/05/2015
- Future Envelope, Delft 18/06/2015
- Glass Performance Days (GPD), Tampere 24-26/08/2015
- Challenging Glass, Ghent 16-17/06/2016
- Future Envelope, Bath 03/06/2016
- ICSA 2016, Minho Portugal, 27-29/07/2016
- Engineered Transparency, Düsseldorf 24/10/2016
- Facade2016, Lucerne 06/10/2016 (COST meeting)
- PowerSkin@BAU, München 19/01/2017
- ICBEST 2017, Istanbul 15-18/05/2017 (Keynotes Uta Pottgiesser / Ulrich Knaack)
- Future Envelope, Delft 22/06/2017
- Next Façades, Munich 08/11/2017 (COST mid-term conference)
- facade2017 Resilience, Detmold 24/11/2017
- Engineered Transparency, Düsseldorf 25/10/2018
- GSE Glass Structures & Engineering Journal (link)
- JFDE Journal of façade Design and Engineering (link)

D 4.7 16 peer reviewed scientific journal papers and conference publications

Until the end of Action in November 2018 the more than 70 peer reviewed scientific conference and journal papers were delivered and published in each Working Group, accessible online:

D 4.8 Submission of at least two research proposals at the end of the Action

Until the end of Action in November 2018 the 15 joint research proposals were submitted or in preparation as a result of the networking with in Action on national and European level.

Group Members and Roles

- Thomas Henriksen, Denmark - ESR/ECI
- Ulrich Knaack, The Netherlands - Chair (2015-16)
- Thaleia Konstantinou, Greece - ESR/ECI
- Christian Louter, The Netherlands - Vice-Chair, STSM Coordinator
- Andreas Luible, Switzerland - Website, Meetings
- David Metcalfe, United Kingdom - Training Schools
- Uta Pottgiesser, Germany - Chair (2017-18)