



NOVEL
STRUCTURAL
SKINS

COSTACTION TU1303

PROGRAM

COST-Action meeting TU1303

Guimarães, Portugal
September 8th & 9th 2015

TUESDAY September 8th 2015

- 09:00 - 09:30 Arrival + coffee
- 09:30 - 10:30 Plenary session
- Fibrenamics: introduction to the Fibrenamics International Platform for the knowledge transfer between universities and companies.
 - Lecture by Martin Tamke “The Tower – an interdisciplinary collaboration in the framework of COST”.
- 10:30 - 13:00 Working Group sessions (WG 1a + 1b, 3 + 2)
- 13:00 - 14:30 Lunch break
- 14:30 - 17:00 Working Group sessions (WG 1a + 3, 1b, 4 + 5)
- 17:00 - 18:00 Management Committee
- 19:00 Dinner at Restaurant “Filhos de Moura”
by bus to R. de Fervenças, 66, 4800-174, Guimarães

WEDNESDAY September 9th 2015

- 09:00 - 09:30 **Arrival + coffee**
- 09:30 - 10:00 **H2020 Plenary Session**
- Presentation and consulting regarding H2020 by SPI –
<http://www.spi.pt/en.index>
 - Presentation of current and coming H2020 calls, related to
Novel Structural Skins
- 10:00 - 12:00 **Working Group sessions (WG 1b + 1a, 2 + 3, 5 + 4, ...)**
- 12:00 - 13:00 **Plenary session**
Round-up, conclusions and future actions
- 13.00 - 14:30 **Lunch break**
- 14:30 - 17:00 **Guided City Tour by foot**
Offered by Fibrenamics

Detailed Agenda

Working Group 1

Working Group 1a - Adaptable structures & skins

Tuesday 08/09/2015 - 10h30-13h

(and a joint meeting with WG3 at 14h30 and joining WG1b on Wednesday at 10h)

1. Opening meeting,
2. Comments previous minutes
3. Set agenda
4. Discuss and fix clear realistic goals that can be reached within the group in Cost 1303.
5. Fix focus points we want to address within adaptability in building skins.
6. Setup framework (+index) for our actions and deliveries – state of the art report, design guide, research project.
7. Discuss type of research project and organise how to collaborate.
8. prepare meeting between WG1a and WG3
9. Funding opportunities
10. Plan next meeting – proposal intermediate WG1a meeting in Eindhoven January 2016
11. Conclusion

Working Group 1b - Bending-active

Tuesday 08/09/2015 - 14h30-17h (and 09/09/2015 - 10h-12h)

(and joining WG1a on Tuesday at 10h30)

1. Current research projects and prototypes, presented by WG1b members
 - Thomas Pachner (TUWien): "Papillon - parametric research pavilion"
 - Stijn Brancart (Vrije Universiteit Brussel): "Undulatus - bending active pavilion"
2. State of the art report - Review paper
3. Design guide on bending-active structures (Eurocode, Materialisation, repository of papers)
4. Eurocode: approach
5. Bending-active COST Action pavilion - prototype showcasing design and manufacturing
6. Development (1) Involvement of industry, (2) Multidisciplinary - including other Working groups / various expertise
7. Funding opportunities - H2020 projects
8. New activities and actions (future workshops, papers, prototype)
9. Conclusion

Working Group 1c - Fabric Formwork

Was held at the ISOFF / IASS Conference in Amsterdam on August 16.

See Documents for the minutes and presentation.

Working Group 2

Wednesday 09/09/2015 - 10h-12h

- 9.30 Alessandra Zanelli and Carol Monticelli, Politecnico di Milano, Italy: recap of the WG2 on going activities;
- 9.35 TASK LCA _ Carol Monticelli, Politecnico di Milano, Italy: Explanation of the edited Matrix divided by types of membrane living systems and of the Map/List of life cycle phases to improve the (env-eco-social) sustainability of novel structural skins (Discussion)
- 10.00 TASK SUSTAINABILITY _ Alessandra Zanelli, Politecnico di Milano, Italy: The use of lightweight systems in architettura: How we should recognise the most promising sustainable strategies? (Open questions)
- 10.15 Together with the participant: open discussion about a cross-linked activity proposed by the WG3
- 11.10 Conclusions on future steps

Working Group 3

Tuesday 08/09/2015 - 10h30-13h

(and a joint meeting with WG1a at 14h30 and joining WG2 on Wednesday at 10h)

- 1. Opening of the WG3 meeting, welcome to participants of WG3 and WG2
- 2. Adoption of agenda
- 3. Comments on minutes of the Turin WG3 meeting
- 4. General status related to WG 3 activities and information on planned and future research projects.
- 5. Status of planned STSMs
- 6. Discussion on possibilities to collaborate with WG2
- 7. Any other business
- 8. Summary meeting dates and places
- 9. Closing of the WG3 meeting

Working Group 4

Tuesday 08/09/2015 - 14.30-17.00

(and joining WG5 on Wednesday at 10h)

- 1. Brief review of the minutes of the last meeting in Denkendorf 24th March 2015
- 2. Presentations (max 20 mins each)
 - a. Carolina Homeiro - Compatibility issues in building acoustics
 - b. Pieter Heyse - Greenville, functional skins for cities of tomorrow
 - c. Comparative study of the biaxial testing of fabric materials (skype)
 - d. Dr. Thomas Stegmaier - presentation about chemistry of textiles/coatings with focus on durability (not confirmed)
- 3. Discussion and agreement of next actions

Working Group 5

Wednesday 09/09/2015 - 10.00-12.00

(and joining WG4 on Tuesday at 14h30)

1. The SaP Report, by Marijke Mollaert (VUB)
2. The Round Robin exercise on Wind, by Jimmy Colliers (VUB)
3. The Training School FROM UNCERTAINTIES TO PARTIAL SAFETY FACTORS CALIBRATION: Application To Tensile Membrane Structures, by Jean-Christophe THOMAS (Univ. Nantes)
4. The non-linear behavior of inflatable structures, collapse of inflatable structures and wind tunnel tests, by Alexis Bloch (Univ. Nantes)
5. The organization of a Round Table Session with experts
6. Guidance educational pack
7. Misc.

Location

Address

University of Minho

Campus of Azúrem

Alameda da Universidade

Guimarães

Gps: [latitude: 41° 27' 6.85" N - longitude: 8° 17' 33.19" W]

Sessions will take place at ZONE 2 and ZONE 3

