



COST Action FP1405 Active and intelligent fibre-based packaging – innovation and market introduction

WG1 GROUP MEETING

Date: 22 November 2016, **Venue:** Hotel Astoria, Bled, Slovenia, **Moderation:** Selcuk Yildirim **Protocol:** Bettina Röcker

Protocol

1. Overview Goals of WG1

Selcuk Yildirim gave an overview on the goals of the WG1. He also presented the recent activities of the working group.

2. Review papers

The state of the art of the planned review papers and the individual participants were shown. (comments in black colour below)

3. WG1: Group works / Presentations / Achievements

Afterwards each group came together and further worked on their individual topics.

In a next step, each group presented their current status and the planned structure of the review papers in order to avoid overlapping from groups. (comments in green are the proceedings and discussions after the workshops)

Industry Leaflet (1.Priority)

- 1. Technical paper for the industry (active packaging)** (Lead: Anouk Dantuma)
Status : first draft with some remaining gaps.
Participants WG: Julien Bras, Marit Kvalvåg Pettersen.
→ 3 Documents out of it for different audiences (Industry, Facebook, Children, Research)
- 2. Technical paper for the industry (Intelligent & interactive packaging)** (Lead: Nuria Herranz)
Status : unknown
Participants WG: Miguel Cerqueira, Mari Nurmi, Rozalia Szentgyorgyvolgyi, Michal Vesely, Tomas Syrový
→ Important: Discuss also with group 1 to avoid overlaps
- 3. Active and intelligent packaging current legislations** (Lead: Sara Limbo) → no request
Status : unknown
Participants WG: Véronique Coma
→ Focus on Food application. Important to consider are the different legislations of different countries. This task was given to WG2 and will be led by the members of WG2.

Peer review papers (2. Priority)

- 4. Technologies to develop active packagings** (Lead: Julien Bras)
Status: already started (83 pages!), some technologies are still missing. References have to be done. no journal defined yet. Could also be a small book.

Participants WG: Julien Bras, Zvi Hayouka, Gülüm Sumnu, Constantine Papaspyrides

→ 15 people in the group! Structure is fixed. Missing experts of the last chapter “new concepts”. Searching for a contribution about Oxygen scavengers. Journals of interest were discussed.

5. **Active packaging for food** (Lead: Selcuk Yildirim)

Status: 2nd manuscript draft done (~50 pages). Focus on benefits to food particularly. Still some work to do. Journal: CRFSFS, high impact review journal. Welcomed by editor.

Participants WG: Selcuk Yildirim, Zehra Ayhan, Ramune Rutkaite, Marit Kvalvåg Pettersen, Tanja Radusin, Véronique Coma, Bettina Röcker

→ 10 People in the group. Continued. Good group contributions. Submission in January 2017 planned.

6. **Functional inks for intelligent packaging** (Lead: Diana Gregor Stevec)

Status: already started. Focus on food packaging. Structure is done. Some pages are written. Journal not defined yet. Participants are welcome.

Participants WG: Diana Gregor Svetec, Miguel Cerqueira, Michal Vesely

→ Detailed topics were discussed. Challenges of the inks on the market will be an important to discuss. Manuscript planned for the End of 2017.

7. **Hybrid electronics (printed and convectional) for intelligent packaging** (Lead: Deja Muck)

Status: Rough structure is present. Focus on devices. Not started yet. Participants are welcome.

Participants WG: Miguel Cerqueira, Deja Muck

→ General Point of Interest: Definitions of A&I Packaging

→ Structure discussed in detail.

Peer review papers (3. Priority)

8. **Active Agents** (Lead: Carmen Freire)

Status: Outline is present. Organisation not clear yet. Searching for Participants.

Participants WG: Selcuk Yildirim, Marco Giacinti B., Ramune Rutkaite, Zvi Hayouka, Lars Järnström

→ 7 people. Content defined. End of Jan 2017: fist version. End of March 2017: submission. Preferred Journal: Trends in Food science and technology (consider max. 10'000 words)

9. **Active packaging for non-food applications** (Lead: Patrycja Suminska)

Status: Searching for experts in the non-food sector. Challenging topic. Important: discuss with Patrycja about details. Check Pharmaceutical applications.

Participants WG: Marco Giacinti B., Rozalia Szentgyorgyvolgyi, Véronique Coma

→ Should continue only if there is enough data to review as well as if there is enough interest. Otherwise not continue!

4. Other Workgroups

Discussion Points:

- **Sustainability.** LCA is difficult to obtain because of missing functional Units. But assumptions can be made in several points.
- Better use the term “**Circular economy**” instead of “sustainability → AP can make a contribution to the circular economy

- **Food Waste.** Was suggested to also include something about that into the paper “AP for food”.

5. Next steps

- Finalizing industry leaflets
- Finalizing review papers

Future activities

- Most promising active and intelligent fibre-based packaging solutions
- Guidelines for future research and developments

Groups

