

FINAL PROGRAMME OF THE 2ND CIRCULAR PACKAGING CONFERENCE

9. – 10. September 2021 (Slovenj Gradec and on-line)

1st DAY: 9. September 2021

8.00 – 9.00: Conference registration on-site and online check-in

9.00 – 9.15: Opening speeches (dr. Blaž Nardin - FTPO dean, dr. David Ravnjak - director of ICP)

9.15 – 10.15: Keynote speakers

Francesca Stevens, Managing Director The European Organization for Packaging and the Environment (Belgium) »EU policy and regulatory developments on packaging (on-line)

Duncan Mayes, Lignutech Oy, (Finland) »Trends and good practices in the use of materials for circular packaging in EU industry« (on-line)

10.15 – 11.00: *Materials and technology*

dr. Stephan Laske, Global Director R&D - Greiner packaging International (Austria) »Circular economy and the techno/legal trade-off« (live)

Magyar Kálmán, Managing Director of AMCO Kft (Hungary) »Biodegradable greenfill material« (live)

Keresztúri Zsolt, Cluster Manager of Ompack First Hungarian Packaging Technology Cluster (Hungary) »Latest trends of circular packaging in Hungary« (live)

11.00 – 11.15 Coffee break: 15 min

11.15 – 12.00: *Innovations for sustainability*

dr. Manica Ulčnik Krump, Head of R&D Recycled-Resource, INTERSEROH Dienstleistungs GmbH / ALBA Services Holding GmbH (Germany) (live)
»Recycling of post consumer polyolefins from light weight packaging waste: customer's expectations versus objective possibilities in practice«

Antoine Mialon, Metgen Oy (Finland) »Lignin biobased coating for strengthening moisture resistance improvement of packaging material« (live)

Janez Šubelj, Flexible Packaging Specialist - LabelProfi (Slovenia) »The trends and challenges of sustainable flexible packaging for food industry« (live)

12.00 – 13.30: *Business models and logistics*

Samo Pergar, Corporate Social Responsibility in Purchasing - Lidl Slovenia d.o.o., k.d. (Slovenia) »REset Plastic @ Lidl Slovenia« (live)

Rok Štifter, Head of shared services Packaging and User manuals BSH Home appliance Group (Slovenia) »Sustainability - Packaging inspirations« (live)

Marija Pantelić, Bossis Valjevo, (Serbia) »Smart packaging for future generations« (live)

Rok Snoj, Managing director Kraftpal GmbH (Slovenia) »Kraftpal X-pallets: sustainable corrugated pallets for modern supply chains« (live)

dr. Andreas Witschnigg, R&D Product Development PreZero GmbH (Germany) »Packaging Recycling: challenges, demands and opportunities« (live)

Ajda Regali Knez, Head of Marketing DSSmith (Slovenia) »Circular packaging in practice« (live)

13.30 – 14.15: Lunch Break

14.15 – 14.45: *Master class 1* **Silvester Bolka**, Head of the Centre for cooperation with industry, FTPO »Recycled plastics for packaging«

14.45 – 15.15: *Master class 2* **Daša Medvešček**, ICP »Biodegradability and compostability testing«

15.15 – 16.00: Discussion and closing remarks of the 1st day (**dr. David Ravnjak**, ICP)

16.00 – 18.00: LabelProfi and FTPO lab tour (15 participants per group)

19.00 – 21.00: Dinner at »Hiša Ančka«

2nd DAY: 10. September 2021

7.30 – 8.25: Conference registration on-site and online check-in

8.25 – 8.30: Opening of 2nd day (dr. David Ravnjak, ICP)

8.30 – 9.00 Keynote speaker: dr. Samir Kopačić, Tu Graz (Austria) »Functional Barrier Coating of Packaging Materials: Application of Biopolymers and Effects on Barrier Performance« (live)

9.00 -10.00 *Session 1: Innovative and bio-based materials 1*

D. Priselac et al. *Influence of silica nanoparticles on the chemical, surface and morphological properties of PLA and PCL mixtures*

P. Samyn *Nanocellulose as oxygen barrier material: from film forming properties to active coatings for packaging*

B. Pilić et al. *PLA-based multilayer packaging films*

E.S. Essakimuthu et al. *Modified Lignin-PLA Composites for Packaging Application*

T. Hartmann et. al. *PLA lightweight packaging in the post-consumer recycling stream – potential for conflict or coexistence?*

10.00 -10.15 Coffee break

10.15-11.15 *Session 2: Innovative and bio-based materials cont.*

Osojnik Črnivec et al. *Crop residues as fibrous and functional compounds for paper production*

Mikuljan et al. *Valorisation of hemp by-products for composite applications*

W. Janik et al. *Chitosan starch-based composites obtained by traditional solution method and via thermomechanical processing*

V. Haas et al. *Future pathways for the utilization of 2,5-furandicarboxylic acid in packaging applications*

M. Chaturvedi *The bioplastic bubble wrap-made up of cellulose*

11.15-12.00 *Interactive workshop*

Service based packaging - improving circularity - Petrol Case (based on Ellen McArthur method).

12.00-12.15: Coffee Break

12.15-13.30 *Session 3 Circular business and optimization models*

R. Simoes et al. *Circularity micro-indicators for plastic packaging*

U. Novak et al. *Sustainable innovations and approaches for transitioning to plastic-free living*

Drobac J. et al. *Boxing up youth knowledge and opinions on sustainable packaging in Serbia*

T. Filipe et al. *A new tool to measure business sustainability and circular economy in a flexible packaging industry*

C. Mair-Bauernfeind et al. *Material versus business model selection: what influences the environmental footprint of packaging more?*

G. Čepon et. al. *Development of cushioning-based methodology to design sustainable paper-based packaging for household appliances*

13.30-14.00 Lunch break

14.00-14.15 Poster session (on-site and online)

14.15-15.15 *Session 4 Smart and sustainable packaging solutions*

T. Cigula et al. *Modulation of water based commercial varnish by adding ZnO and SO₂ nanoparticles to enhance protective function on printed packaging*

A. Ozcan et al. *The production of edible and antimicrobial active packaging material with thyme oil and determination of printability properties*

O. Panak et al. *Colour measurements of thermochromic sensors with diverse colouration temperatures*

S. Đurđević et al. *Development of smart packaging sensors using arduino starter kit*

T. Hartmann et al. *Additive production processes for the manufacturing of customised bio-based packaging*

15.15-16.30 *Session 5 Sustainable printing and converting*

F. Várza et al. *Application analysis of white flexographic printing inks on biodegradable flexible foils*

Oberlintner A. et al. *Plasma as a fast and efficient tool for obtaining and retaining a long-term hydrophobicity of biopolymer packaging*

K. Maňurová et al. *Investigation of printable color gamut in digital printing on biodegradable flexible packaging materials*

A. Marošević Dolovski et al. *Thermochromic effect and adhesion parameters of liquid crystal-based printing ink on recycled printing substrates*

B. Toth *Analysis of corrugated packaging paper and its components by DSC thermograms*

T. Czene et al. *The effect of different virgin fibers to the properties of paper products*

16.30 Closing of conference (dr. Blaž Nardin)

All presentations are planned for 12 minutes timeframe.

The interactive workshop is focused on using circularity methodology by the Ellen McArthur Foundation to make 2 packaging solutions from Slovenian company Petrol more circular. All participants will receive the workshop materials prior to workshop.

2nd DAY: 10. September 2021

POSTER SESSION

- U. Vrabč Brodnjak et al. *Viscoelastic properties of paper from softwood and hardwood pulp with added Chitosan*
- K. Jenko et al. *Development of hydrophobic protection layer for high-temperature irreversible thermochromics*
- E. Arman Kandirmaz *The use of encapsulated ammonium polyphosphate in the production of flame retardant paper*
- D. Tutak et al. *Investigation of the flame-retardant property of silica nanoparticles ratio in the paper coating*
- A. Miletić et al. *Blackberry seed oil-loaded PLA nanofibers as active packaging with UV absorbent potential*
- J. Slapnik et al. *Viscose fibre reinforced high-density polyethylene as a food contact material*
- R. Lorber et al. *Peel properties of modified PE-PP blends*
- T. Rozman et al. *Influence of compatibilizer amount on adhesion and properties of PE-based biocomposites*
- T. Kapun et al. *Lignin bio-based additive for strength and moisture resistance improvement of fibrous packaging material*
- J. Juhant Grkman et al. *Influence of the nanocrystalline cellulose on the paper barrier properties*
- M. Sežun et al. *Removal ink efficiency of flexographic printed paper packaging made from different alternative plants*

The posters will be printed and also available online for all participants. The questions from online audience will be monitored through chat. The instructions for the poster are available at the conference website

EVENT SPONSORS



METTLER TOLEDO

