





31st IAPRI Members' Conference on Packaging 2023, SIES School of Packaging, Navi Mumbai, India

Venue: Hotel Four Points by Sheraton, Navi Mumbai

Monday 22nd May 2023	
IAPRI Board Meeting - Unison 1	
Lunch Break - Prefunction Area	
IAPRI Communities of Practice - University Education CoP - Unison 3 Led by: Edward A. Church	
IAPRI Communities of Practice - Distribution Packaging CoP - Unison 1 Led by: Edward A. Church	
IAPRI Communities of Practice - Sustainable Packaging CoP - Unison 3 Chair: Carlos Diaz-Acosta	

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16.00 - 17.00	IAPRI Communities of Practice - Packaging & Consumers CoP and Active & Intelligent CoP- Unison 1 Chair: Selcuk Yildirim
18.00 - 20.00	Registration - Hotel Four Points by Sheraton, Navi Mumbai - Pre-function Area
9.00 - 22.00	Welcome reception at Hotel Four Points by Sheraton, Navi Mumbai - Unison Hall
	Tuesday 23rd May 2023
09.00 – 09.30	Registration Unison Hall
09.30 – 11.00	Conference Opening / Inauguration Chief Guest Mr. Piyush Goyal, Minister of Commerce & Industry, Consumer Affairs & Food & Public Distribution and Textiles · Government of India
11.00 – 11.30	Beverage Break
11.30 - 12.00	Keynote Lecture - 1 "Coup d'oeil - The Indian Packaging & Printing Industry" Ramu Ramanathan, Editor, PrintWeek India & WhatPackaging?, India
12.00 - 12.30	Keynote Lecture - 2 "EU Packaging Regulations – forward regulatory insight update" Diana Schiffer, Packaging Regulatory Advisor, The LCA Centre, Netherlands
12.30 - 13.30	Lunch break - Prefunction Area

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	13 30 - 15 00	Parallel Sessions
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Session 01 - Distribution Packaging

Chair: Dr. Jay Singh. Cal Poly State University, USA Room: Unison 1

13.30 - 13.55	1.1 Effect of Wooden Pallets Characteristics on the Compression Strength of Palletized Plastic Pails with Double Overhang. Mary Paz Alvarez Valverde - Virginia Tech - Center for Packaging and Unit Load Design/United States
14.00 - 14.25	*1.2 Predicting the Effect of Pallet Overhang on the Box Compression Strength. Saewhan Kim - Virginia Tech - Center for Packaging and Unit Load Design/United States
14.30 - 14.55	*1.3 Evaluation of Maximum Pallet Deflection Under Dynamic Forklift Handling Conditions. Seth Capizzi - Virginia Tech - Center for Packaging and Unit Load Design/United States

Session 02 - Packaging sustainability Chair: Dr. Eric Martine. HEIG-VD, Switzerland Room: Unison 3

*2.1 Life cycle assessment of multiple dispensing systems used for cosmetic product packaging.

Shambhavi Rathore - Toronto Metropolitan University /Canada

2.2 Microfibrillated cellulose as reinforcement in PLA-based packaging materials: Dry or wet addition in extrusion processes.

Soraya Sánchez - ITENE/Spain

15.00 – 15.15	Break – Beverages

15.15 – 17.15	Parallel Sessions

Session 03 - Packaging Materials

Chair: Yves Wyser. Nestlé Research Centre, Switzerland

Room: Unison 1

15.15 - 15.40	*3.1 Effect of food simulants on CuONP stability in bionanocomposite food packaging film. Nattinee Bumbudsanpharoke - Kasetsart University/Thailand
15.45 - 16.10	*3.2 A review on the influence of materials in heat seal layers of flexible plastic food packaging. **Bram Bamps - Uhasselt/Belgium**

Session 04 - Active & Intelligent Packaging

Chair: Selcuk Yildirim. ZHAW, Switzerland Room: Unison 3

*4.1 Evaluation of the Antimicrobial Activity of Sodium Alginate Films Integrated with Cinnamon Essential Oil and Citric Acid.

Nadine Rüegg - Zurich University of Applied Sciences/Switzerland

4.2 Barrier Properties of PLA/PBAT Films Incorporating Titanium Dioxide. **Uruchaya Sonchaeng -** Kasetsart University/Thailand

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16.15 - 16.40	3 3 - Effect of Consecutive Extrusion Process on the Properties of Recycled Polyethylene Terephthalate (rPET). **Busarin Chongcharoenyanon - Kasetsart University/Thailand**
16.45 - 17.10	

4.3 Ethylene Colorimetric Ink For Monitoring Fruit Ripening.

Jesus Palenzuela* - ITENE/Spain

4.4 Mechanical properties of PBAT/TPS nanocomposites under UV exposure.

Thitiporn Kaewpetch - Kasetsart University/Thailand

*Peer Review PTS

40.00 32.00	Official Dinner with Musical Performance
19.00 – 22.00	Skygrill - Open Terrace

Wednesday 24th May 2023

Wednesday 24th May 2023	
08.30 - 09.00	Registration Unison Hall
08.30 - 09.00	Keynote Lecture - 3 "Latest research & developments in the area of food packaging" Dr. Kirtiraj Gaikwad, Asst. Professor (Packaging Tech), Indian Institute of Technology, Roorkee, India
09.00 - 09.30	Keynote Lecture - 4 "Innovation at Scale: Regenerative Packaging for a cleaner Planet" Dr. Ramjee Subramanian, Business Head, Pakka Impact Ltd., Bengaluru, India
09.30 - 10.00	Presentation by Student Scholarship Award Winner Marije Linders from the University of Twente, The Netherlands

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10.00 - 10.30	Poster Presentations
10.00 - 10.05	<u>Pitch 1</u> - Estimation of the degradation of strawberries during Rail transport from knowledge and experiences made on Roads trips
10.00 - 10.05	by Jean-Baptiste NOLOT and Philippe DELLOQUE - Universite de Reims Champagne-Ardenne/ France
10.05 10.10	<u>Pitch 2 -</u> Understanding silver nanoparticle leaching behavior from active biobased nanocomposites
10.05 - 10.10	by Mieke Buntinx - Hasselt University - MPR&S Institute for Materials Research/Belgium
10 10 10 15	<u>Pitch 3</u> - Sustainable Development of Single-Use Paper Cups for Beverage Packaging in Thailand
10.10 - 10.15	by Supawadee Theerathammakorn - Sukhothai Thammathirat Open University/Thailand
10.15 10.20	<u>Pitch 4</u> - Release of Vanillin, trans-Cinnamaldehyde, and Citral from Poly(butylene succinate) Films Containing Lignin Nanoparticles
10.15 - 10.20	by Pathtamawadee Nuamduang - Kasetsart University/Thailand
10.20 - 10.25	<u>Pitch 5</u> - Novel Temperature-sensitive label based on thermochromic ink for hot food packaging and serving applications
10.20 - 10.25	by Prachi Jain, Indian Institute of Technology Roorkee / India
10.35 10.30	<u>Pitch 6</u> - Natural pH sensors as a quality monitoring smart label for poultry packaging
10.25 - 10.30	by Akhila Konala , Indian Institute of Technology Roorkee / India

11.00 - 12.30	Parallel Sessions

Session 05 - Distribution Packaging Chair: Damien Erre. ESIReims, France

Room: Unison 1

5.1 Transport stresses in e-commerce logistics and its effects on corrugated board packaging.

Astrid Odeberg Glasenapp - RISE Bioeconomy/Sweden

5.2 Optimal selection of the percentage of recycled material in plastic according to the risks of distribution cycle.

Marta Garrido García - ITENE/Spain

5.3 Understanding how vertical and multi-axial vibrations affects the load stability.

Manuel García-Romeu - Safe Load Testing Technologies/Spain

Session 06 - Packaging Materials

Chair: Carmen Sanchez. ITENE. Spain Room: Unison 3

6.1 Biochar composites for sustainable thermal packaging applications. *Carlos Diaz-Acosta* - *Rochester Institute of Technology/United States*

6.2 Effect of wrapping parameters and transport constraints on stretch film properties for freight transport applications.

Elora Leguebe - Metropack/France

 ${\it 6.3 Sugarcane as a source to produce paper in Mexico. Study to evaluate the} \\ {\it feasibility for Mexican Industry.}$

Cristina Guzman - Universidad de Monterrey/Mexico

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12.30 – 13.30	Lunch Breal	k - Prefunction Area
13.30 - 15.30	Para	llel Sessions
	Session 07 - Novel packaging Chair: Yves Wyser. Nestlé Research Centre, Switzerland Room: Unison 1	Session 08 - Packaging sustainability Chair: Cristina Guzmán. Universidad de Monterrey, Mexico Room: Unison 3
13.30 - 13.55	7.1 Fluorescent markers for bioplastics from encapsulated algae chlorophyll. Soraya Sánchez - ITENE/Spain	8.1 The position of refill systems in the future of supermarkets. *Roland ten Klooster - University of Twente/ The Netherlands*
14.00 - 14.25	7.2 Pilot-scale processing and functional properties of compostable thermoplastic gliadin/poly(ε-caprolactone) blend films. Alejandro Aragón-Gutiérrez - ITENE/Spain	8.2 Research after an innovative way to determine designs of squeeze bottles with the least leftovers. Zoë Menting - University of Twente/The Netherlands
14.30 - 14.55	*7.3 Improved criteria for evaluating impact targets in regulative drop tests of dangerous goods packagings. Nikolaos Lengas - BAM Federal Institute for Materials Research and Testing/Germany	8.3 A review of sustainable packaging trends globally and in India with changes in regulatory & consumer requirements. Saurabh Narawade - SIES School of Packaging/India
15.00 - 15.25	*7.4 How to measure the angle of repose of hazardous substances in the test centres for dangerous goods packagings. Eva Schlick-Hasper - Federal Institute for Materials Research and Testing (BAM)/ Germany	Active & Intelligent Packaging 8.4 Centrifugal fiber spinning to fabricate polyhydroxyalkanoate/zinc oxide nanocomposite films: structure-property analysis. Chris Vanheusden - Hasselt University - MPR&S/Belgium

15.30 - 15.45	Beverage Break
13.30 13.73	Develage break

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*Peer Review PTS





15.45 – 17.15	Parallel Sessions
13.43 - 17.13	i didiici Scssions

Session 09 - Logistics & Supply Chain Chair: Jay Singh. Cal Poly State University, USA

Room: Unison 1

15.45 - 16.10	9.1 How grocery retailers can utilize learnings from meal kit delivery services to optimize their supply chain. Jay Singh - Cal Poly State University, Industrial Tech. and Packaging/United States
16.15 - 16.40	9.2 Logistical Challenges to Deliver in the Last Mile for Consumer, Furniture, and Military including White Glove Services. Kevin Smith and Paul Singh - Packaging Forensic Associates/United States
16.45 - 17.10	

Session 10 - Packaging machinery & systems

Chair: Roland Klooster. University of Twente, Netherlands Room: Unison 3

10.1 Developing a design method and tool for producing customizable forming shoulders.

Roland ten Klooster - University of Twente/ The Netherlands

Packaging for Food & Agriculture

10.2 Use of waxes and rubbers to create SUPD-compliant coated packaging.

Akansha Singh - VTT/Finland

10.3 Microperforated PBAT/PLA Film with Enhanced Gas Transmission Rate for Packaging of Fresh Produce.

Pichamon Sungdech - Kasetsart University/Thailand

19.00 – 22.00	Social Dinner with Cultural Show
19.00 - 22.00	Unison Hall

Thursday 25th May 2023

09.00 - 11.00	Parallel Sessions
03.00 - 11.00	i di dilei Sessionis

Session 11 - Distribution Packaging

Chair: Cristina Guzmán. Universidad de Monterrey, Mexico

Room: Unison 1

09.00 - 09.25	11.1 High-speed camera analysis of load/pallet interface behavior in logistics unit submitted to impact.
	Charles Tissandie - Institut Clément Ader Université de Toulouse/France

Session 12 - Packaging sustainability

Chair: Rafael Auras. School of Packaging, Michigan State University Room: Unison 3

12.1 New Sustainable Inks For The Packaging Printing Industries.

Jesus Palenzuela - ITENE/Spain

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09.30 - 09.55	11.2 Statistical study on acceleration value data recorded on roundabout, curve, during a road trip to classify then in funct. **Baptiste Boutrige - Metropack/France**
10.00 – 10.25	11.3 Case studies for optimization and standardization of packaging references improving its environmental behaviour. **Marta Garrido García - ITENE/Spain**
	Active & Intelligent Packaging
10.30 – 10.55	11.4 Shelf-life extension of fresh-cut pineapple by sodium alginate-based active edible coating with lemongrass essential oil. **Darylle Ortiz - DOST-Packaging Technology Division/Philippines**

12.2 Recycled Polymers: Improving recycled high density polyethylene properties through reactive extrusion.

Alejandro Aragón-Gutiérrez - ITENE/Spain

12.3 A trend-based analysis of packaging material amounts per capita per day in The Netherlands.

Roland ten Klooster - University of Twente/The Netherlands

12.4 Accelerating the biodegradation of poly(lactic acid) at mesophilic conditions by biostimulation.

Rafael Auras - Michigan State University, School of Packaging/ United States

11.00 - 11.30	Beverage Break
	Unison Hall
11.30 – 12.30	Conference Closure
12.30 - 13.30	Lunch Break - Prefunction Area
13.30 – 14.30	IAPRI General Meeting
13.30 - 14.30	Unison Hall

Optional Tours post lunch:
Visit to SIES Navi Mumbai Campus and SIES School of Packaging
Mumbai Heritage Tour (Evening)

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