

ISTA Asia-Pacific Division and APN Symposium



Outline

- ▶ **Event** : The 6th annual board meeting of the ISTA Asia Pacific Directors (APD) and 2023 ISTA Asia-Pacific & Asia Packaging Network Symposium
- ▶ **Date** : November 14~15, 2023
- ▶ **Venue** : Oriental Hotel, Jeju, Korea
- ▶ Hosted by International Safe Transit Association (ISTA), Asia Packaging Network (APN)
- ▶ Organized by ISTA Asia Pacific Division / Yonsei Univ.(Sustainable Packaging BK Team)
- ▶ Supported by Korea Society of Packaging Science and Technology (KOPAST), Ministry of Trade, Industry and Energy, Korea Conformity Lab (KCL), Korea Logistics Science & Technology (KLST), Safe Load Testing Technologies



Other Events

- ▶ **ISO preparatory meetings** - 13:00~16:00, November 14 / Oriental Hotel(Halla hall)
- ▶ **Annual board meeting of the ISTA Asia Pacific Directors (APD)**
- 16:00~17:30, November 14 / Oriental Hotel - Prepared by ISTA, ISTA Asia Pacific Division
- ▶ **Welcome dinner** - 18:00~20:00, November 14 / Oriental Hotel (by KCL)



Program

11/15 (Wed) 09:00~18:00	Registration (Halla hall)	
	Opening ceremony	Chair: Hansol Doh (Ewha Womans Univ.)
09:40~10:00	Opening remark	Jongkyoung Kim, Chair, ISTA APD
	Welcome remarks	Andrew Joseph Gruber, President, ISTA Lerpong Jarupan, APN
General session: Focusing on global issues and trends (ISTA & APN)		
	Halla hall	Chair: Hansol Doh (Ewha Womans Univ.)



Matthew Daum

Michigan State University

Ph.D., Packaging Engineering, Accomplished Fortune 50 executive manager and tenured Big Ten academic School leader. I am known for developing strategy, driving results through collaboration and partnership, and creating inclusive cultures. As Director for Michigan State University's School of Packaging, I have partnered with Advancement to raise \$14M+ in 8 months and completed a major building renovation. As an executive level manager at HP Inc., I successfully led global teams in Marketing, R&D, Packaging, Supply Chain and Big Data Analytics for multi-billion dollar businesses.

Keynote 1: Recent research trends in packaging
(Title to be confirmed. On-line)

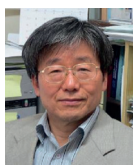
10:00~10:30

Lerpong Jarupan

Kasetsart University)

Keynote 2: Research Highlight on Packaging for Sustainability and Environmentally

10:30~11:00



Jong-Whan Rhim

Kyung Hee University

- 1Ph.D. in Food Engineering, Dept. of Food Science, North Carolina State University, Raleigh, NC, USA, 1988
- M.Sc. in Food Engineering, Dept. of Biological Engineering, Korea Advanced Institute of Science and Technology, Seoul, Korea, 1980
- B.Sc. in Food Engineering, Dept. of Food Engineering, Yon Sei University, Seoul, Korea, 1977

Keynote 3: Recent research trends in packaging
(Title to be confirmed. On-line)

11:00~11:30

11:30~13:00

Lunch

Halla hall

Sara hall

Session 1-1 : Distribution package testing and evaluation
(Organized by ISTA Asia Pacific)

Session 2-1 : Packaging material studies
(Organized by Yonsei University)

Chair: Dr. Seungil Yoon (Samsung Bioepis)

Chair: Prof. Seonghyuk Ko (Yonsei Univ.)



Eric Hiser

ISTA – International Safe Transit Association

Mr. Hiser is Vice President of Standards and Certification at the International Safe Transit Association (ISTA), an association focused on empowering organizations and their people to minimize product damage throughout distribution and optimize resource usage through effective package design.

Improve Your Packaging with Research & Testing

13:00~13:30 / Halla hall

Prof. Thitiporn Kaewpetch

Kasetsart University

The Influence of Particle Arrangement in Nano-coating Layer on Barrier Property for bio-based plastics

13:00~13:25 / Sara hall



Alberto Tellechea Zugarramurdi

Safe Load Testing Technologies

- Industrial Engineering degree from ETSII - Polytechnic University of Valencia and a master's in business management from the School of Industrial Organization in Madrid.
- Member of the European and Global Board of Directors at ISTA
- Corporate Member of the IAPRI Association

Latest Innovations for Measuring and Testing Real-World Distribution Conditions

13:30~14:00 / Halla hall

Dr. Olivier Vitrac

National Institute of Agricultural Research

Enhancing Food Contact Materials Safety through Predictive Analysis

13:25~13:50 / Sara hall



David Jin

Data Physics, Lansmont

PPT Group (Lansmont, Mecmesin, Alluris, James Heal) APAC Regional Director, Chief Representative of Lansmont Corporation China Office. Aerospace industry background, over 28 years' experience in the field of environmental and reliability testing (Mainly shock and vibration) and joint to packaging industries in year 2000, joint Lansmont Corporation in 2007. ISTA member, ex-ISTA Global Technical board member (4 years), Ex-ISTA China Console Member (8 years); member of IAPRI – Packaging for Suitability Work group. Have been studying and supporting ISTA test protocols, Lansmont "Field-to-Lab" methodology and applications for 23 years.

How to optimize the packaging design with the transportation test results

14:00~14:30 / Halla hall

Prof. Nattinee Bumbudsanpharoke

Kasetsart University

Utilization of Nanoparticles to Improve the Properties of Biodegradable Polymers for Packaging Application

13:50~14:15 / Sara hall



Hyun Wook Jung

Korea University,
Department of Chemical and Biological Engineering

- 1999, PhD, Department of Chemical Engineering, Korea University
- 2000- 2001, Postdoc, University of Minnesota
- 2003-Present, Professor, Department of Chemical and Biological Engineering, Korea University

Simulations on particle dynamics in film coating processes of particulate suspensions

14:15~14:40 / Sara hall



Matthew Alan Thompson (Matt Thompson)

ISTA – International Safe Transit Association

ISTA (the International Safe Transit Association) continues to invest in education, certification & sharing of event presentations for its members. Matt will provide an update on ISTA's Packaging Dynamics Professional (ISTA PDP) Certification program just launched over 1 year ago and review how to maintain and extend certification, Matt will highlight new educational content focusing on: (1) Distribution Environment Data Collection & Analysis; (2) Principles of Cold Chain Packaging; (3) an update to ISTA's Responsible Packaging by Design (RPbD) guide and (4) provide a special preview of exclusive new training material featuring ISTA's 6 most popular test procedures using ISTA's brand new virtual distribution packaging test lab.

ISTA's Community Focusing on Education, Certification & Member Expertise

14:30~15:00 / Halla hall

Vanee Chonhenchob

Kasetsart University

Exploring the Applications of Lignin Nanoparticles Derived from Industrial Waste for Diverse Packaging Solutions

14:40~15:05 / Sara hall

15:00~15:20

COFFEE BREAK

Session 1-2: Circular economy and packaging
(Organized by ISTA Asia Pacific)

Session 2-2: Sustainable packaging and LCA studies
(Organized by Yonsei University)

Chair: Prof. Hyunmo Jung (Kyongbuk College of Science)

Chair: Dr. Dongho Kang (KITECH)



Hyungbin Kim

Research center,
Korea Association of Industrial Packaging

- Inha University
- Vice president, Korea Association of Industrial Packaging
- Director, Research center,
Korea Association of Industrial Packaging

The need to change the design element conditions of transport packaging containers

15:20~15:50 / Halla hall

Prof. Rafael Auras

Michigan State University

Eco-friendly Packaging Materials from Agricultural Wastes in Thailand (especially for Making Molded-Pulp Trays)

15:20~15:50 / Sara hall



Massimo De Santis

Mae Fah Luang University

Massimo has matured relevant business experiences in managing significant budgets and operational key responsibilities in the European aerospace industry. A wide experience in managing global projects in the White Goods market sector allowed him to reach several awards. He is an influential pioneer in the development of the field of sustainability, supporting the shift from Linear Economy to Circular Economy and New Plastic Economy through the implementation of a new business model based on PaaS with the rent of an innovative Reusable and Returnable Protective Packaging with relevant Reverse Logistics in the White Goods global market.

Circular economy and PaaS demonstrated by Reusable Transport Packaging for Large Household Appliances (On-line)

15:50~16:20 / Halla hall

Dr. Wirongrong Tongdeesoontorn

Mae Fah Luang University

Enhancing functional properties of novel biodegradable packaging to reduce food loss for sustainability in modern society

15:50~16:20 / Sara hall



Jonghoon Park

Toronto Metropolitan University

- Director of Sustainable Packaging Research Lab
- The Creative School / Environmental Applied Science and Management
- Toronto Metropolitan University, Toronto, Ontario, Canada

A Case Analysis of Reusable Packaging Life Cycle Assessment for Sustainable E-Commerce Packaging Design and Operation (On-line)

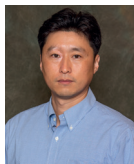
16:20~16:50 / Halla hall

Prof. Nathdanai Harnkarnsujarit

Kasetsart University

Embracing Digital Life Cycle Assessment in Packaging: A Path to Sustainable Development Goals (On-line)

16:20~16:50 / Sara hall



Euihark Lee

Michigan State University

- 2019 - current: Assistant Professor, Michigan State University
- 2015 - 2019: Assistant Professor, Rutgers University
- 2012 - 2015: Postdoctoral Research Associate, Rutgers University

Implementation of Artificial Neural Networks and Challenges in Estimating Box Compression Strength (On-line)

16:50~17:20 / Halla hall



DONGHO KANG

Korea Institute of Industrial Technology

- 2015. 07., PhD in School of Packaging, Michigan State University
- 2014. 07., MSc in Applied Statistics, Michigan State University
- 2009. 07., MSc in School of Packaging, Michigan State University

Life Cycle Assessment of Eco-Friendly Paper Pouches vs. Vacuum Metallized Film Pouches for Sustainable Food Packaging

16:50~17:20 / Sara hall

18:00~20:00

Dinner and networking (by ISTA)