



Peers Alley Media

1126 59 Ave East, V5X 1Y9, Vancouver BC, Canada

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# SCIENTIFIC PROGRAM



4th Global Summit on

## **ADVANCES IN EARTH SCIENCE AND CLIMATE CHANGE**

Sep 29-30-Oct 01, 2025

<https://advanced-earth-climate-change.peersalleyconferences.com/>

# SCIENTIFIC PROGRAM

# DAY 03

WEDNESDAY

OCTOBER 01, 2025

BST - BRITISH SUMMER TIME (UK TIME)

06:00-06:10

Introduction

Topics: Earth Science | Climate Change | Ecology | Geology | Environmental Science | Soil Science | Recycling | Renewable Energy | Green Energy | Hydrology | Pollution Control | Biodiversity | Remote Sensing | Atmospheric Chemistry | Natural Hazards | Oceanography | Climate Change Mitigation Strategies | Climate Education and Outreach

Distinguished Speaker Talks

06:10-06:30

Title: Indicators to get you Home

**Francis Hubbard**, *Independent Researcher, New Zealand*

06:30-06:50

Title: The Food Crisis in the New Cold War Era and Korea's Response focusing on Food Recycling and Waste Management

**Cheri-Ho Lee**, *Korea Food Security Research Institute, Korea University, Republic of Korea*

06:50-07:10

Title: Analyzing Prefabricated Architecture in the Planning of Old Urban Spaces

**Kai-Hong Lin**, *DaYeh University, Taiwan*

07:10-07:30

Title: Innovative Timber Architecture: Spatial and Structural Exploration of Shigeru Ban's Works

**Yi-Chun Liu**, *Da-Yeh University, Taiwan*

07:30-07:50

Title: Textile Circularity and Planetary Boundaries: Aligning Industry with Europe's Green Transition

**Purvi Zaveri**, *Biocare Research (I) Pvt. Ltd., India*

07:50-08:10

Title: Sugarcane Bagasse Valorization for Pesticide Removal from Aqueous Environments

**Ashish Kapoor**, *Harcourt Butler Technical University, India*

08:10-08:30

Title: Understanding Consumer Sentiments towards Two-Wheeler Electric Vehicles: Implications for Organizational Sustainability and Corporate Social Responsibility

**Sachin Balwantrao Deshmukh**, *MIT World Peace University, India*

08:30-08:50

Title: Patliputra to Patna: Evolution of a Historic City into a Smart City

**Rashmi Sharma & Tanvi Ranjana**, *Banasthali Vidyapith, India*

4<sup>th</sup> Global Summit on

## ADVANCES IN EARTH SCIENCE AND CLIMATE CHANGE

Sep 29-30-Oct 01, 2025



### The Food Crisis in the New Cold War Era and Korea's Response focusing on Food Recycling and Waste Management

#### **Cherl-Ho Lee**

Korea Food Security Research Institute, Korea University, Republic of Korea

This paper reviews the causes and consequences of the recent world food crises, such as the 2007/2008 world grain price hike, and the subsequent food crises caused by extreme weather, the prevalence of infectious livestock diseases, the COVID-19 pandemic, and the Ukraine-Russian war. The food security situation in Korea is assessed and the measures to prepare for the anticipated food crisis are suggested. Korean Peninsula has been divided into South and North in 1945 and in the state of cease fire since Korean war. South Korea has achieved rapid economic growth over the past half century and its per capita income reached over \$30,000. However, its grain self-sufficiency rate has fallen below 20%, making the country the most vulnerable food security nation among OECD countries. The Korea Food Security Research Foundation is urging that a stockpiling of 1.2 million tons of rice in preparation for the unification of the Korean Peninsula and that a free rice support system for low-income households be implemented first in South Korea. The Foundation is carrying out a campaign to reduce food waste and is continuing efforts to reduce food waste by half and increase the food energy self-sufficiency rate of Korea from 32% to 50%. Food recycling and waste management are important policy issues in Korea, and various ministries are taking interest and implementing various projects. This paper introduces examples of food recycling and waste management being implemented by the Korean government and food companies.

#### **Biography**

Cherl-Ho Lee has been teaching Food Engineering at Korea University for 30 years since 1979. He graduated from Korea University, Department of Agricultural Chemistry and received his Ph.D. at the Royal Veterinary and Agricultural University of Denmark, and was a post-doctorate research associate at MIT, Cambridge, US. He established Korea Food Security Research Foundation in 2010 and served as chairman/honorary chairman until 2024. He has published over 250 research papers, five books in English edition, eight books in Korean, and has co-authored or edited 30 books in Food Science and Technology and Food Security.



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# CERTIFICATE OF RECOGNITION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**Cherl-Ho Lee**

Korea Food Security Research Institute, Korea University, Republic of Korea

In recognition of your outstanding contribution as a  
**Distinguished Speaker** of the presentation entitled

**The Food Crisis in the New Cold War Era  
and Korea's Response focusing on Food  
Recycling and Waste Management**

at

**Virtual Event - 4<sup>th</sup> Global Summit on  
Advances in Earth Science and Climate Change**

held during September 29-30, 2025

It's a great privilege to express sincere thanks and profound gratitude to present  
this award in recognition of your invaluable insights, experience and expertise.

**John Wang**  
Montclair State University  
USA

**Albert Fässler**  
Bern University of Applied  
Sciences, Switzerland

**Paolo Porto**  
University Mediterranea of  
Reggio Calabria, Italy

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