



University
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Business School
of the Year
THE AWARDS
2022



KASETSART
UNIVERSITY
KNOWLEDGE OF THE LAND



HUB of
KNOWLEDGE for
LOW CARBON
MATERIALS

A collaborative session bringing together the
**Circular Innovation Special
Interest Group (SIG) and the
Hub of Knowledge for Low
Carbon Materials**

This SIG focuses on accelerating world-leading
Circular Innovation research and impact.



Building a Quadruple Helix Ecosystem
Asst. Prof. Dr. Pawarin Tuntariyanond
Kasetsart University, Thailand



**Introduction to SIG Circular Innovation and
Collaborative Opportunities**
Dr. Ruth Cherrington
University of Exeter, United Kingdom



**Circular Textile Innovations for Low-Carbon and
Regenerative Materials**
Dr. Marja Rissanen
Tampere University of Applied Sciences, Finland



AI-based Sorting for Textile-to-Textile Circularity
Prof. Dr. Jen-Jie Chieh
National Taiwan Normal University, Taiwan



AI-based Sorting for Textile-to-Textile Circularity
Assoc. Prof. Dr. Yi-Jun Pan
Asia Eastern University of Science and Technology



**Agricultural Industrialization of Low-Carbon
Natural Fibers**
Mr. Bo-Han Xiang
Wellbon Enterprise Co., Ltd
Taiwan Textile Research Institute



**Low-Carbon Materials Utilization Classification
Using Explainable AI**
Asst. Prof. Dr. Thanit Puthongsiriporn
Kasetsart University, Thailand



**Enabling Circular Innovation Pathways for Low-
Carbon Materials**
Dr. Vin Sharma
University of Exeter, Exeter, United Kingdom



**Bridging Low-Carbon Materials and Circular
Agriculture for Value Creation and Carbon
Reduction in Communities**
Asst. Prof. Dr. Kornthip Watcharapanyawong
Kasetsart University, Thailand



What is it?

This workshop explores how digital technologies and low-carbon material strategies can accelerate circular economy transitions globally.



Who should attend?

Academics, industry professionals, policy makers, and practitioners interested in circular economy, digital transformation, and sustainable materials. Early Career Researchers are especially encouraged to join.



Why should I attend?

Gain insights into research and practical applications for circular innovation. The session offers opportunities to network with international experts, co-create solutions, and identify collaborative opportunities.



What is involved?

Topics cover low-carbon and regenerative materials, AI-driven technologies for circular agriculture, and global policy. The session will conclude with an open dialogue on collaborative opportunities within the network.



**Circular
Innovation**



ISPIM Innovation Conference



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**Circular
Innovation**



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CONNECTING INNOVATION
PROFESSIONALS



Advancing Circular Innovation and Low-Carbon Materials: From Strategy to Implementation

ISPIM Circular Innovation SIG & Thailand Hub of Knowledge for Low Carbon Materials

The circular economy presents a powerful opportunity to create new value, strengthen competitiveness, and build resilient innovation ecosystems. By rethinking how materials are designed, produced, and recovered, organisations can unlock sustainable growth while driving technological and business model transformation.

This joint workshop, organised by the ISPIM Circular Innovation SIG and the Thailand Hub of Knowledge for Low Carbon Materials, brings together stakeholders to explore practical pathways for advancing circular innovation and low-carbon materials through international collaboration.



Key Themes

- Circular innovation strategies and business model transformation
- Low-carbon materials and sustainable manufacturing
- Cross-sector collaboration and ecosystem development
- Policy, funding, and international partnerships
- Translating research into impact



Workshop Format

The session will combine:

- Expert insights and short provocations
- Interactive breakout discussions
- Case studies from Europe and Southeast Asia
- Collaborative roadmap development



Who Should Attend?

- Innovation and sustainability scholars
- Industry leaders and R&D managers
- Policymakers and funding bodies
- Start-ups and scale-ups in circular and low-carbon materials
- International collaboration partners

