

# Bioeconomy 2.0: Improved use of Global Bioresources for Climate & Biodiversity, Nutrition & Health, and Business! -boosted by knowledge sharing & international collaboration



## PROF. DR. LENE LANGE

CEO, LL-BioEconomy,  
Research & Advisory, Denmark

*Research Expertises : Mycology: Enzyme discovery for biomass conversion. Focus on valorizing crop residues and side-streams. Inventor of CUPP for rapid protein function prediction. Advancing microbiome analysis and exploring fungal secretomes for biomass applications. Utilizing enzymes to create food, materials, and upcycled textiles. Committed to climate action, circularity, and global sustainability.*



14 January 2025

10.00 – 12.00 hrs. (GMT+7)



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### **Abstract:**

In the transition to a sustainable bioeconomy, innovative biotechnological solutions are essential for efficient biomass utilization and the valorization of agricultural and industrial side-streams. Prof. Lene Lange will share insights from her extensive career in enzyme discovery and functional annotation. Her work bridges fundamental research with practical applications, opening for unlocking full potential of a range of different types of bio-resources now wasted or underexploited; as well as opening for improved commercial viability of several new types of upscaled biorefinery. Drawing on her leadership roles in academia, industry, and international advisory bodies—including the EU BBI-JU (**Vice Chair for Scientific Committee**) and CIMMYT (**Board Chair**), and IRRI (**Program Chair**)—Prof. Lange will highlight the role of public-private partnerships and multidisciplinary collaboration in driving innovation and industrial-scale impact.

### Special Seminar

on 14 January 2025 at Sattabongkot room, 1st floor, EXC building  
King Mongkut's University of Technology Thonburi (KMUTT)  
(Bangkhuntien campus)

#### Program schedule

Tuesday, 14 January 2025

09.30 – 10.00	<b>Registration</b>
10.00 – 10.05	<p><b>Welcoming address:</b> By Asst. Prof. Dr. Bunyaphat Suphanit – Director of Pilot Plant Development and Training Institute (PDTI – KMUTT) Assoc. Prof. Dr. Chakrit Tachaapaikoon – Deputy Director of PDTI</p>
10.05 – 10.15	<p><b>Opening remark/Greeting Prof. Dr. Lene Lange CEO, LL-BioEconomy, Research &amp; Advisory</b> By Prof.Dr. Navadol Laosiripojana – Director of the Joint Graduate School of Energy and Environment (JGSEE - KMUTT)</p>
10.15 – 10.45	<p><b>Special Lecture "Bioeconomy2.0: Improved use of Global Bioresources for Climate &amp; Biodiversity, Nutrition &amp; Health, and Business! -boosted by knowledge sharing &amp; international collaboration"</b> By Prof. Dr. Lene Lange CEO, LL-BioEconomy, Research &amp; Advisory</p>
10.45 – 11.15	<p><b>Updated on the national and regional bioeconomy strategies</b> By Dr. Warinthorn Songkasiri – Director of Biochemical Engineering and Systems Biology Research Group, National Center for Genetic Engineering and Biotechnology (BIOTEC)</p>
11.15 – 12.00	<b>Discussion</b>
12.00 – 13.30	<i>Lunch</i>
13.30 – 15.00	<p><b>Exhibition at PDTI hall</b></p> <ol style="list-style-type: none"> <li>1. Research Lab: Excellent Center of Waste Utilization and Management (ECoWaste – KMUTT/BIOTEC) Dr. Benjaphon Suraruksa – Director of ECoWaste</li> <li>2. Research Lab: Algal Biotechnology Laboratory Dr. Kalyanee Paithoontangsarid – Senior researcher</li> <li>3. JGSEE Research Lab: Assoc. Prof. Dr. Nakorn Worasuwanarak, JGSEE</li> <li>4. Excellent Center of Enzyme Technology and Microbial Utilization and LIPID Technology Research Laboratory Assoc. Prof. Dr. Chakrit Tachaapaikoon – Deputy Director of PDTI</li> </ol>
	Break session
15.00 – 16.00	<b>Discussion / Q&amp;A and Closing remark</b>