

# Charin Techapun

Professor of Practice Dr. Charin Techapun received a doctorate in bioprocess engineering from Hiroshima Kokusai Gakuin University, Japan. He has been tenured by the Division of Biotechnology, Faculty of Agro-Industry, Chiang Mai University, Thailand, since 1998. He has 86 publications in international refereed journals (SCOPUS) with an h-index of 26 and 1876 citations by 1580 documents, an i-5 index of 11, and 3 patents.

His research interests include the production of bioproducts and high-value-added compounds from agricultural and agro-industrial materials using zero-waste processes. He successfully applied for funding and served as project leader for over five million US dollars. The notable research grants he has received and participated in as either research project/program leader or co-project leader are included.

(1) Research Projects involving a Pilot Plant of 3<sup>rd</sup> generation bio-ethanol production from agricultural wastes

(2) Research Project: Validation of Longan Extract Production Technology and Properties on the Quality, Health, and Commercial Potential Aspects, as well as the Longan Extract Demonstration Plant and

(3) Research Project: The Production of Biofuels and High-Value Chemicals from Agricultural and Agro-Industrial Waste Materials Using a Complete Zero Waste Process.

In 2003, Supreme Products Co., Ltd, in the Thai Northern Industrial Estate, licensed its first Novel Bioactive Ingredient Extraction Processes from longan and five-leaf ginseng. His knowledge was transferred to real commercial production.

In 2018, the leading private company licensed the technology IP from his research group, and the real commercial production factory was established (P80<sup>TM</sup> Natural Essence longan extracted by PM group, Thailand) with an investment of more than 35 million US dollars.

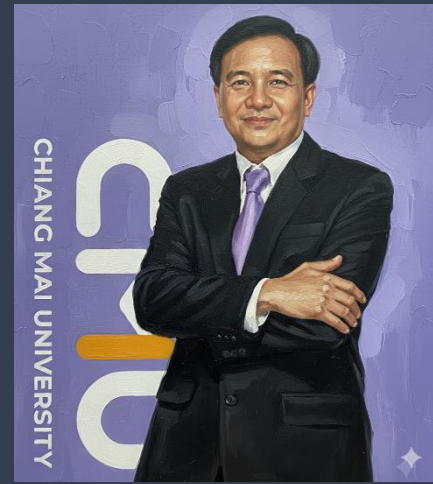
He is a leading professional in the beverage industry in beer, whiskies, and gin production, including functional drinks development. One of his successes is the second brand of Lao PDR, “Sawan Beer” by Sawan Brewery, which started from his formulation.

In an international academic network-building capacity, he is a project leader of the APEC Agricultural Technical Cooperation Working Group, and a leader of the Research Network on Technological Assessment of Bioenergy and High Value-added Products Production from Agricultural Waste by Zero Waste Processes was supported by the China-Thailand Cooperation Network in Bioenergy (NRCT-CAS).

He received the “Big Impact Award” for outstanding work in terms of impact on the Economy, Society, and Environment within at least 4 awards both at national and international levels, such as the “STEP Innovation Award 2017” from the Thai Science and Technology Park and later in 2020, received the “Diploma Platinum Award” from the Ministry of Development Found and Regional Policy, Republic of Poland, at the 13th International Invention and Innovation Show INTARG® 2020, Poland. This award is categorized for innovations to solve agricultural problems and transfer them to commercial production. Nowadays, he serves as a vice president of CMU, inclusively in 1) Strategic Planning, Budgeting, 2) Resilience plus Agility Management, and 3) Strategic Educational Quality Development.

## Administrative Experience

- Dean, Faculty of Agro-Industry, CMU (2009-2016)
- Founder Dean, Colleges of Maritime Studies and Management CMU (2016-2017)
- Assistant President, CMU (Planning and Budgeting) (2016-2017)



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## Education

- B.S. Biochemistry and  
Biochemical Technology,  
Chiang Mai University, TH

- M.S. Biotechnology,  
Kasetsart University, TH

- Ph.D. Engineering  
(Bioprocess Engineering)  
Hiroshima Kogusai Gakuin  
University, Japan