Invited Speakers

Ekwipoo Kalkornsurapranee

Prince of Songkla University, Thailand



Ekwipoo Kalkornsurapranee, Ph.D., currently holds a position in the Division of Physical Science, Faculty of Science, Prince of Songkla University (PSU), Songkhla, Thailand. His foundational academic journey was completed at the same institution, where he earned his doctoral degree in Polymer Technology (Ph.D.) in 2013. Dr. Kalkornsurapranee immediately commenced his academic career at PSU, joining the faculty as a Lecturer in 2013. His significant contributions to research and education led to his promotion to Associate Professor in 2020. This year also marked the start of his concurrent administrative leadership role, as he took on the responsibility of Director of the Natural Rubber Innovation Research Institute (NR-IRI) at PSU, a position he continues to hold. The core of Dr. Kalkornsurapranee's research expertise is dedicated to enhancing the functional performance and commercial value of natural rubber, transforming this vital resource into advanced material solutions. His work is systematically structured around three critical technological pillars: advanced modification techniques to significantly improve the thermal stability of natural rubber; the innovation and development of thermoplastic natural rubbers (TPVs) designed to possess processability equivalent to traditional synthetic thermoplastics; and the pioneering of novel vulcanization techniques that are both energy-efficient, utilizing lower temperatures, and chemically minimal, requiring reduced chemical content. His scholarly output reflects a career of high productivity and translational impact. Dr. Kalkornsurapranee is the author of over 60 international scientific publications and

holds 20 granted patents and petty patents in Thailand, underscoring the commercial readiness of his innovations. His current focus remains highly translational, centered on the development of specialized materials derived from natural rubber, including skin barrier patches, slow-release and shape memory polymers. These applications are targeted for deployment across a diverse range of critical sectors, including the medical, toy, agricultural, forensic and sport court flooring industries.