



CHEMISTRY AND TECHNOLOGY INFORMATION SERIES 2022 (CATIS 2022)

Gloves R&D – The Next Frontier

Presented by:
ChM. Dr. Woo, Choon Kong



*Technology Upscaling Director
Smarterials Technology GmbH, Magnusstraße 11, 12489 Berlin, GERMANY*

Date: 12th August, 2022 (Friday) || Time: 10:00 am – 11:30 am



<https://forms.gle/vBAPQ2d2BJZmCNLV8>

Email: catisikm@gmail.com

**Organized by:
Institut Kimia Malaysia & Universiti Kebangsaan Malaysia**

ChM. Dr. Woo, Choon Kong

Technology Upscaling Director

Smarterials Technology GmbH, Magnusstraße 11, 12489 Berlin, GERMANY

ABSTRACT

Malaysia has been the largest exporter of rubber gloves in the world, contributing around 63% of the global supply in 2021. In 2020 itself, Malaysia has exported approximately USD\$ 800 million in rubber surgical gloves, making it the 36th most exported product in Malaysia. There is a rapid rise in global demand for rubber gloves attributed to the surge in health consciousness after the COVID-19 pandemic as well as the government policies regarding the industrial safety toward various industries. Despite this, glove manufacturers are still actively involved in the innovation, research and development to improve product quality and productivity, as well as new product development. In this seminar, the speaker will share his reflection on raw materials of rubber, design & technology of gloves, clinical concerns, and technologies for transforming innovation.

SPEAKER BIOGRAPHY

Dr Woo was in the Cardinal Health as *Director*, R&D Engineering Management for Medical Surgeon Glove products from 2012 till 2020. During the tenure, He managed multi remote sites of R&D Teams of around 20 subordinates in Rayong, Thailand and Penang, Malaysia. Leading a SEA regional R&D resources teams to drive projects related to Gloves R&D. The surgeon glove is a medical device for healthcare industry, which is in a highly regulated environment (FDA, QMS, 510(k) PMN submission, MDD/MDR, CE marking, biocompatibility tests, clinical evaluation, etc.). He was the go-to-person to provide leadership in defining new directions in technology roadmap, product/portfolio strategy, process engineering, equipment development and basic platform technologies. This job required extensive regional travels and visit to USA HQ for the multi-sites R&D team management, business collaborations with counterparts across US, Europe and Asia-Pacific, and technical supports to manufacturing sites. The research portfolio is heavily tight to the global business unit strategy, regional customers' needs, technology trends and new operational capability. In his 8+ years tenure, he has led a R&D team to launch several new products. He was also a *Module Director* at Ansell Science and Technology Innovation Center, in Shah Alam for 10+ years of tenure (2001 till 2012). In 2021, he established own business, Woock Research Resources with a consulting engagement as a Technology Upscaling Director to support Smarterials Technology GmbH, Berlin, Germany on a new innovative surgical glove technology development. He has been appointed by Universiti Sains Malaysia (USM) as the Visiting Researcher in 2022 resides the Integrated Research Laboratory, School of Materials and Mineral Resources to manage a team and conduct product verification research prior to manufacturing scale-up.