

## **EVENT PROGRAM**

**16<sup>th</sup>-17<sup>th</sup> December 2021**

**King Mongkut’s University of Technology Thonburi (KMUTT)  
Bangkok, Thailand**

### **15<sup>th</sup> December 2021**

13:00-16:30 : Testing Zoom Presentation

### **16<sup>th</sup> December 2021**

08:00-08:45 : Registration via Zoom for online participants

08:45-09:15 : VDO Presentation

- King Mongkut’s University of Technology Thonburi (KMUTT)
- Faculty of Science (FSCI), KMUTT
- School of Bioresources and Technology (SBT), KMUTT

09:15-09:45 : Opening Ceremony

- Opening by master of ceremony (MC)
  - Asst. Prof. Thana Sutthibutpong
  - Dr. Non Thongprong
- Welcome Address by
  - Assoc. Prof. Thiradet Jiarasuksakun  
Dean of Faculty of Science, KMUTT
  - Asst. Prof. Wunpen Chonkaew,  
Head of Organizing Committee of NANO Thailand 2021, KMUTT
- Opening Address by
  - Assoc. Prof. Suvit Saetia,  
President of KMUTT
  - Dr. Wannee Chinsirikul  
Vice President Nanotechnology Association of Thailand

09:45-09:55 : Sponsor Award Ceremony

- Assoc. Prof. Suvit Saetia, President of KMUTT
- Sponsor: National Nanotechnology Center (NANOTEC)  
Bara Scientific Co., Ltd.

09:55-10:05 : VDO Presentation and Group Photo of Distinguished Guests

National Nanotechnology Center (NANOTEC)  
Bara Scientific Co., Ltd.

10:05-10:20 : Coffee Break

10:20-11:05 : Plenary Lecture

- Solid-state Nanopore Platform integrated with Machine Learning for Digital  
Diagnosis of Virus Infection  
Professor Tomoji Kawai, Osaka University, Japan

11:10-12:30 : Invited Lectures and Oral Presentation

- Nanomaterials, nanostructures, and nanofabrication
- Theory and simulation for nanosystems

- Nanoenergy and storage
- Nanomedicine and biotechnology
- Nanotechnology for catalysis and industry
- Nano in wearable technology

12:30-13:30 : Lunch Break

13:30-18:00 : Invited Lectures and Oral Presentation

- Nanomaterials, nanostructures, and nanofabrication
- Theory and simulation for nanosystems
- Nanosafety
- Nanoelectronics, photonics, and optics
- Nanoenergy and storage
- Nanomedicine and biotechnology
- Environmental and agricultural nanotechnology
- Nanotechnology for catalysis and industry

### **17<sup>th</sup> December 2021**

07:30-08:25 : Registration via Zoom for online participants

08:00-10:00 : Plenary Lectures

- Materials Science with 2D Atomic Layers  
Professor Pulickel M. Ajayan, Rice University, USA (8:00-8:25)
- Nucleoside-modified mRNA-LNP therapeutics  
Professor Drew Weissman, University of Pennsylvania, USA
- COVID 19 mRNA vaccine development  
Professor Kiat Ruxrungtham, Chulalongkorn University, Thailand

10:05-11:40 : Invited Lectures and Oral Presentation

- Nanomaterials, nanostructures, and nanofabrication
- Environmental and agricultural nanotechnology
- Nanotechnology for catalysis and industry
- Graphene and carbon nanotubes
- Nanotechnology for food and food packaging applications
- Nanotechnology in startup and industrial enterprise
- Nanotechnology for COVID-19 diagnosis and vaccine development

11:40-12:40 : Poster Presentation

12:40-13:40 : Closing Ceremony

- Master of ceremony (MC)
    - Dr. Kornkanya Pratumyot
  - Flagship handover ceremony
    - Speaker of Nanotechnology Association of Thailand
    - VDO Flag Handover: KMUTT-NANO-NANOTECH
    - Speaker of NANOTECH
  - Closing Address by
    - Nanotechnology Association of Thailand
    - Assoc. Prof. Thiradet Jiarasuksakun  
Dean of Faculty of Science, KMUTT
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