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The 5th International Seminar on Sciences

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PREFACE

The 5th International Seminar on Sciences (ISS) is an annual meeting organized by the Faculty of Mathematics and Natural Sciences, IPB University (FMIPA IPB). The seminar was held on 25 October 2018, at the IPB International Convention Center, Bogor, Indonesia. The main theme of this seminar was “Navigating Sciences in Disruptive Era” in accordance with the rapid change in Information Technology that has changed the way we work, communicate, collaborate, do business, do research, etc. Even our behavior and culture now have been affected by those rapid changes. This reality demands us to respond properly and to navigate ourselves safely passing all those disturbances and disruption along the way. The scope of the seminar comprises these topics:

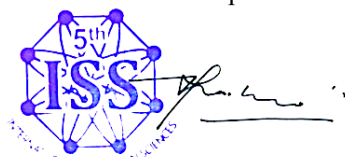
- Bio-based Functional Materials
- Biophysics, Biomaterials, and Biosensors
- Bioresources, Biosciences, and Biotechnology
- Data Science and Modelling
- Environmental and Climate Change
- Information Technology for Agriculture
- Internet of Things for Sustainable Agriculture
- Life Sciences
- Nanotechnology
- Renewable Energy
- Actuarial Sciences and Risk Management
- Other related topics

The 5th ISS this year presents six academics/researchers/experts as speakers, both from national and international institutions namely:

- Prof. Susumu Uchiyama (Osaka University, Japan)
Roles of Mass Spectrometry in Protein Science and Engineering
- Prof. Suharsono (IPB University, Indonesia)
Genetic Modification of Potato (*Solanum tuberosum* L.) Plants Potentially Applied in Agro-Industry
- Assoc. Prof. Kiattawee Choowongkamon, Ph.D. (Kasetsart University, Thailand)
Computer-aided Drug Discovery – From Small Compounds to Protein Inhibitors against Tyrosine Kinase of EGFR for Cancer Therapy
- Delphine Clara Zemp, Ph.D. (University of Göttingen, Germany)
Biodiversity Enrichment Experiment in Oil Palm Plantation
- Dr. Allan Spessa (Swansea University, UK)
Towards a Fire Early Warning System for Indonesia (ToFEWSI)
- Mr. Indra Utoyo (PT. Bank Rakyat Indonesia, Indonesia)
Explainable Machine Learning based Fraud Detection using Customer Behavioral Pattern in E-Channel Transactions

We would like to thank all the contributors and participant who made this event a big success. We are also pleased to announce that a record number of 70 papers will be published in the IOP EES Conference Proceeding and hope that you will also consider joining the upcoming ISS conferences.

The 5th ISS Chairperson



Dr. Sony Hartono Wijaya

The 5th ISS Proceeding Coordinator

A blue ink signature of Dr. Setyanto Tri Wahyudi, written in a stylized, cursive script.

Dr. Setyanto Tri Wahyudi

