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Preface

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PREFACE

Dear colleagues,

We are glad to announce the release of the 4th International Conference of Food and Agriculture (ICOFA-2021). The ICOFA is an annual conference organized primarily by Politeknik Negeri Jember. In this year the theme of our conference is "Scientific and Technological Efforts in Sustainable Food and Agriculture"

Surely, we plan to conduct this conference physically just like the previous ICOFA two years ago in November 2019. However, due to the COVID-19 pandemic, the situation has not subsided, the 4th ICOFA 2021 was carried out virtually as same as ICOFA 2020 by the Zoom meeting platform. We took this option because this conference was already designated and funded. Keynote and invited speakers were also scheduled for this event. Many delegations and authors requested for this conference to be performed, even virtually, since they need it to cover their publication and sharing knowledge requirements.

The key directions of the conference covered the discussion of advanced achievements and touch upon the main aspects of agriculture engineering and biotechnology, organic agriculture, animal science related to food, food science and technology, food safety, food security and sovereignty, IT for agriculture and renewable and novel energy sources.

The conference was run as planned on 6th November 2021 for the plenary session to 7th November 2021 for the parallel session and supported by a virtual event organizer started from 9.00 am to 5.00 PM. Conference models are a Plenary session with keynotes (40 minutes for each keynote speech) and participants' presentations (20 minutes for each presentation). A total of 144 participants (120 presenters and 24 non-presenters) from Universities, Research Institutes, and also Government Departments joined the conference in over five countries from Japan, Thailand, India, South Korea, and Algeria.

Our honorable speakers were Dr. Nishu Gupta SRM from the Institute of Science and Technology, India, Prof. Kyung-Min Kim, Ph.D. from Kyungpook National University, Korea, Prof. Dr. Tosawat Seetawan from Sakon Nakhon Rajabhat University, Thailand and Associate Professor Bibin Bintang Andriana, Ph.D. from Kwansei Gakuin University, Japan.

More than 120 full papers were submitted to the 4th ICOFA 2021. After a pre-review on originality and language, the peer review process was arranged by Editorial Committee and 73 manuscripts were selected for publication in IOP Conference Series: Earth and Environmental Science (EES).

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We also wish to thank the keynote speaker, invite speakers, presenters, and participants, and all authors for contributions to the 4^{th} ICOFA 2021 and colleague members of the organizing committee, please accept my deep appreciation for your hard working in ensuring the success of the conference.

Editor-in-Chief, ICOFA 2021 Dr. Ir. Rosa Tri Hertamawati, M.Si, IPM

A list of Steering Committees and Organizing Committees are available in this pdf.

The 4th International Conference on Food and Agriculture

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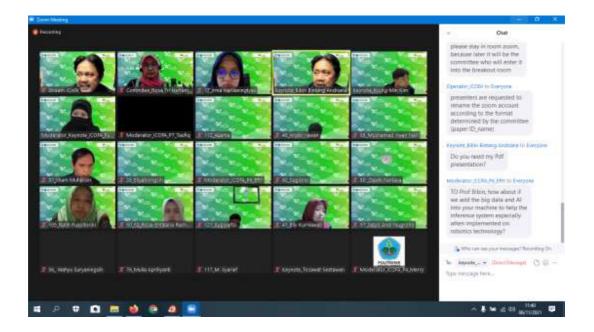
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Conference Photograph

Plenary Session



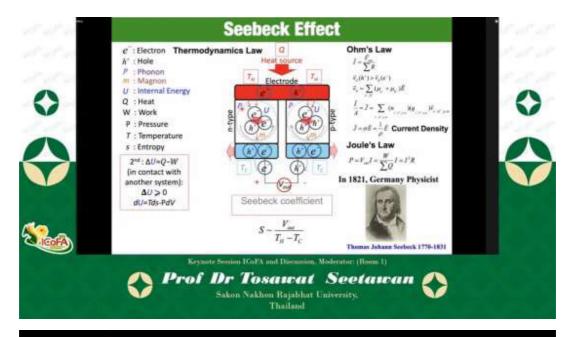


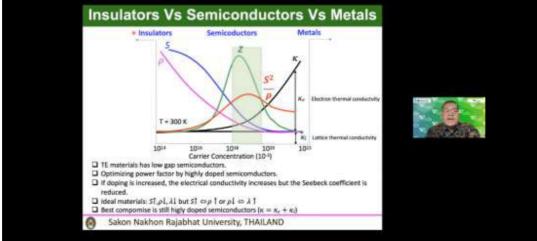
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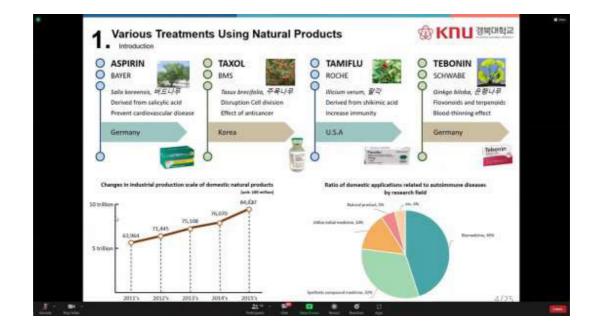
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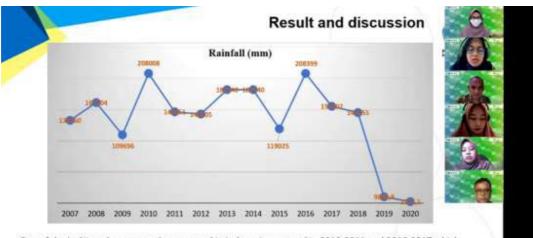
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Parallel Session





One of the La Nina phenomena that occurred in Indonesia occurred in 2010-2011 and 2016-2017 which resulted in experiencing quite high rainfall while in 2015 and 2018-2020 there was a decrease in rainfall caused by the El Nino phenomenon

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