#### **List of Conference Chairs**

Conference Chair: 2022 Research, Invention, and Innovation Congress (RI2C2022)

1. Advisory Chair

Suchart Siengchin, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand

2. Conference Chair

Somrerk Chandra-ambhorn, KMUTNB, Thailand

Kampanart Theinnoi, KMUTNB, Thailand

3. General Secretary

Wanlop Harnnarongchai, KMUTNB, Thailand

4. International Advisory Board

Sakdirat Kaewunruen, University of Birmingham, UK

Edmund Haberstroh, RWTH Aachen University, Germany

Bashir Ahmad, King Abdulaziz University, Saudi Arabia

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Jyotishkumar Parameswaranpillai, Alliance University, India

Vincent Aroulmoji, Mahendra Educational Institutions, India

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Athanasios Tsolakis, University of Birmingham, UK

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5. RI2C2022 Academic Chair

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Kampanart Theinnoi, KMUTNB, Thailand

Titipong Lertwiriyaprapa, KMUTNB, Thailand

Rungsima Yeetsorn, KMUTNB, Thailand

Wanlop Kitisatorn, KMUTNB, Thailand

Sunanta Sodsee, KMUTNB, Thailand

Pornsak Srisungsitthisunti, KMUTNB, Thailand

Nonchanutt Chudpooti, KMUTNB, Thailand

Watchareewan Jitsakul, KMUTNB, Thailand

Chaniga Chuensangjun, KMUTNB, Thailand

6. Innovative Sustainable Science (iSS) Editors

Managing Editor: Malinee Sriariyanun, KMUTNB, Thailand

Editorial board members:

Yu-Shen Cheng, National Yunlin University of Science and Technology, Taiwan

Debraj Bhattacharyya, IIT Hyderabad, India

Wawat Rodiahwati, University of New England, Australia

Elizabeth Jayex Panakkal, KMUTNB, Thailand

Secretary: Nichaphat Kitiborwornkul, KMUTNB, Thailand

7. Innovative Sustainable Science (iSS) Academic committee

Marttin Paulraj Gunaduppalli, IIT Hyderabad, India

Diana Jose, Kannur University Thalassery Campus, India

ANNE SAHITHI ST, Vellore Institute of Technology, India

Neelu Raina, Shri Mata Vaishno Devi University, India

Patchanee Yasurin, Assumption University, Thailand

Suvaluk Asavasanti, KMUTT, Thailand

Keethi Katam, Mahindra University, India

Manik Prabhu, Sun Yat-sen University, China

Zahoor, Chinese Academy of Sciences, China

Elizabeth Jayex Panakkal, KMUTNB, Thailand

Santi Chuetor, KMUTNB, Thailand

Theerawut Phusantisampan, KMUTNB, Thailand

Benjamaporn Wonganu, KMUTNB, Thailand

Vanarat Phakeenuya, KMUTNB, Thailand

Malinee Sriariyanun, KMUTNB, Thailand

Tawiwan Kangsadan, KMUTNB, Thailand

Atthasit Tawai, KMUTNB, Thailand

# Aim and Scope of iss2022

2022 Research, Invention, and Innovation Congress (RI2C2022) (https://www.ri2c-2022.com/home.aspx)

Session: Innovative Sustainable Science (iSS)

Venue: Online Conference at King Mongkut's University of Technology North Bangkok, Thailand

Conference date 4-5 August 2022

#### **Aim and Scope**

Main topic coverages: Environmental and Energy Technology

The other topics related to Environmental and Energy Technology include, but not limit to

- Environment
- Energy and Earth Sciences
- Soil Sciences
- Hydrology
- Geography
- Energy Engineering (Production, Distribution and Storage)
- Renewable Energy
- Sustainable Development
- Natural Resource Management

# **Editorial policies**

#### **Evaluation process**

All full papers will be subjected to double blind peer-reviews with at least 2 reviewers. The evaluation will be based on the relevancy to the conference scope, structure of the manuscript, logical and scientific merits, innovative, presentation, format and ethic of publications. The communication between the editorial office and reviewers is kept confidential. Reviewers should not disclose any information. After review of the manuscript by at least two independent reviewers, the decision will be made by the editor, which can be categorized in three conditions as follows; Accept without changes, Revisions Required, and Reject. The results of reviewing process will be informed via email from the conference organizer.

#### Paper submission guidelines

The full paper must be written in English language. Full papers should be original and unpublished research or review in topic areas covered by the iSS-Ri2C theme with the length 7-10 pages. The key compositions of the full research papers include 1) Abstract, 2) Introduction, 3) Materials and methods, 4) Results and discussion, 5) Conclusion, 6) Acknowledgement, 7) References.

#### Ethics in publishing

Iss2022's Publication Ethics is based on the guidelines and standards developed by the Committee on Publication Ethics (COPE: https://publicationethics.org/).

#### **Plagiarism**

Plagiarism and self-copying contents are absolutely prohibited in iss's proceeding. All submitted manuscript will be screened with plagiarism detection software. The screened manuscript by software and editor will be proceeded to reviewing process.

# Opening session: Advisory Chair opening



# General Chair opening



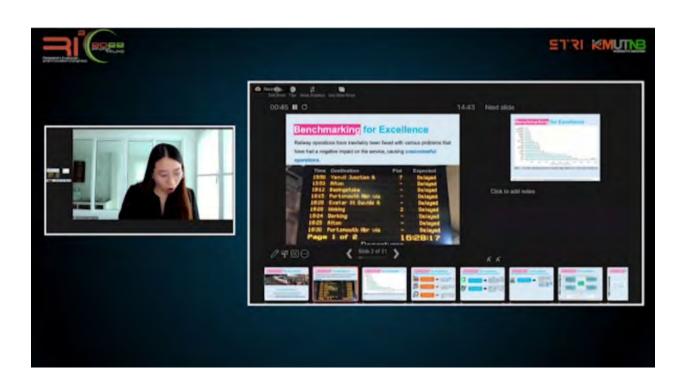
# **Plenary Speakers**







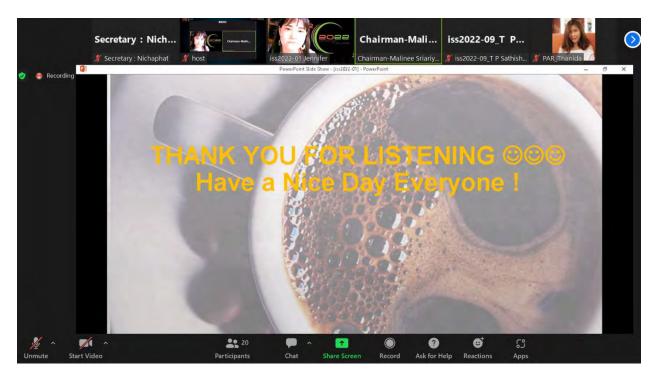




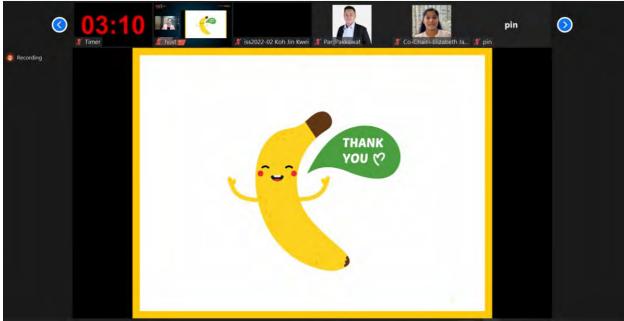
#### 4 August 2022. ISS Section 1, Room 1. Visual platform. Time 13.15-17.00

Session Chairs: Malinee Sriariyanun Co-chair: Elizabeth Jayex Panakkal Secretary: Nichaphat Kitiborwornkul











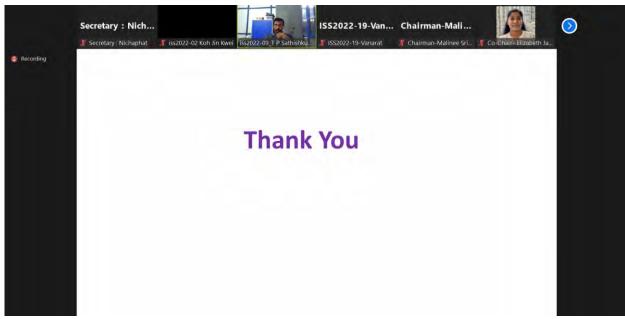


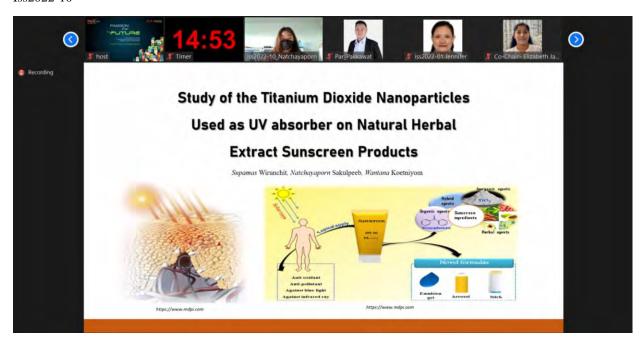


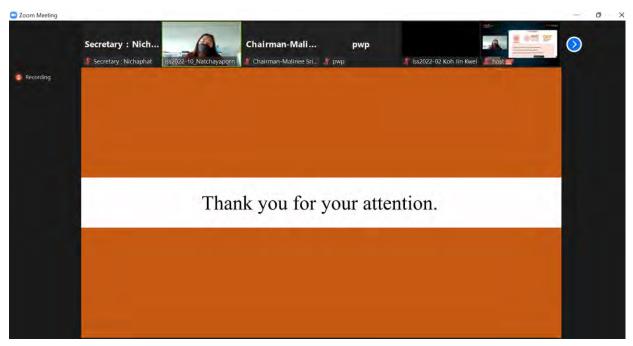








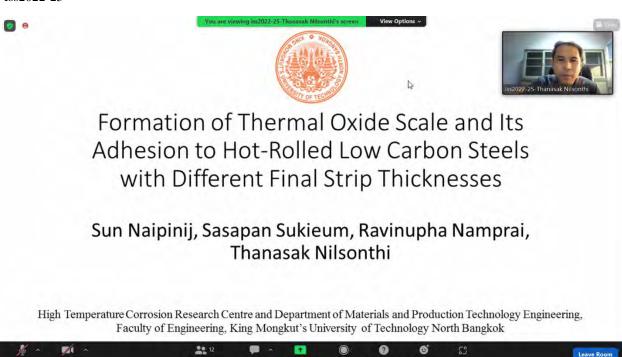


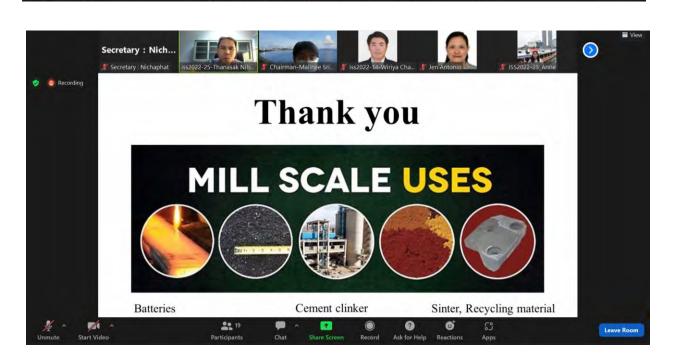


5 August 2022. ISS Section 2, Room 1. Visual platform. Time 09.00-14.45

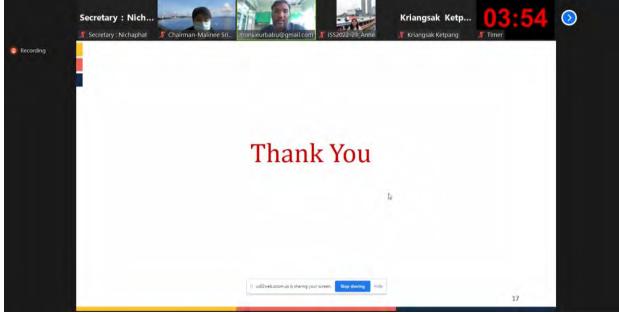
Session Chairs: Malinee Sriariyanun Co-chair: Prapakorn Tantayotai

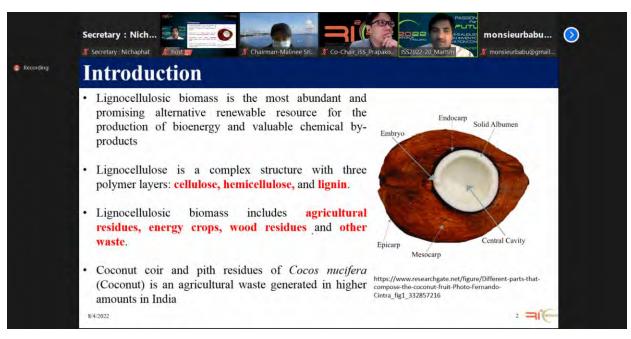
Secretary: Nichaphat Kitiborwornkul



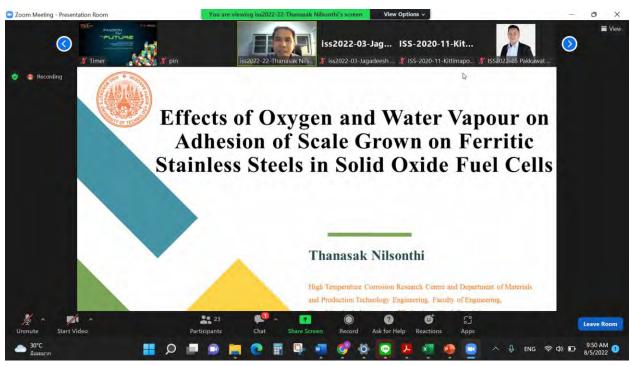


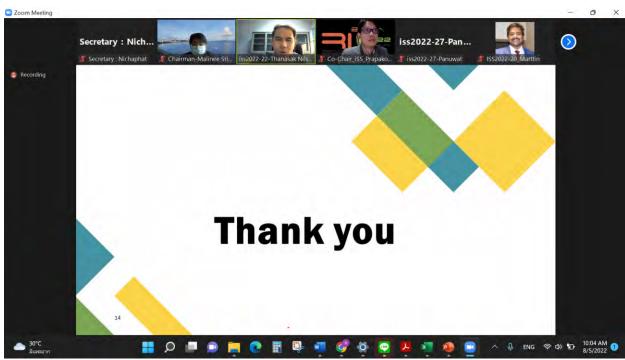


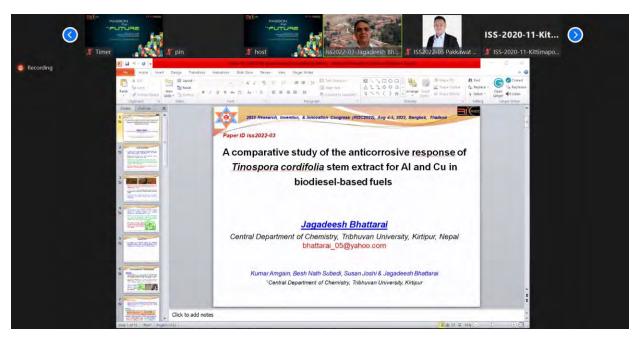


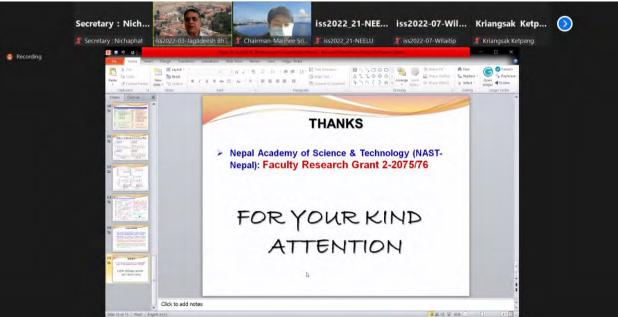












#### After Break



