Preface

Proceeding of the 3rd International Conference of Lignocellulose (ICONLIG) in conjunction with the 15th International Symposium of IWoRS

Dear Colleagues,

It is a privilege for us to present the proceedings of the 3rd International Conference of Lignocellulose (ICONLIG) in conjunction with the 15th International Symposium of IWoRS to the delegates and the authors of this annual event. We really hope that you will it fruitful and inspiring.

The crisis we are now facing is a powerful reason for real and impactful action, providing hope that our action can produce a transformative change benefiting this planet generally and our society particularly. Amid chaotic environment, scientists and engineers are, thus, challenged to tackle environment-related problems through beneficial innovations. They must find critical points related to the environmental challenges, thereby reducing the impediment of sustainability efforts from remediation of global pollution to the design of green syntheses and technologies and of next-generation greener and functional materials. As an urgent action in response to this serious issue, an international platform meeting is necessary for the scientists and engineers to share their knowledge and exchange inspiring experiences of recent updates in the scopes of characterizations and applications of plant biomass.

The proceedings collection consists of the papers submitted to the 3rd ICONLIG in conjunction with the 15th International Symposium of IWoRS which was successfully held in Bogor, Indonesia, during September 20-21, 2023. The papers have gone through several tight peer-reviewed processes after the event, and we were very careful in selecting the best manuscripts suitable for this BIO Web Conference proceedings. In addition to this program, several international keynote and invited speakers came from the United States of America, Sweden, Finland, Japan, China, and Malaysia to present their interesting works related to the fundamental sciences and potential applications of plant biomass for a sustainable future.

The conference aims to explore recent updates on the characterizations, technologies, and a broad range of applications of plant biomass, to provide the scientific communities with new insights into the new generation of engineers and scientists concerned with the massive production of renewable polymers for a sustainable future, to convey excellent opportunities for the interaction and networking of all the participants, and to deepen technical skills and knowledge, strengthened global networking, and stronger connections for potential future research projects.

The editors truly hope that this publication will give a broad overview of the potential impact of plant biomass for a sustainable future to the readers, and it will become valuable references for biomass-related research in the near future.
The editors would like to provide their appreciations and thanks to all the ICONLIG-IWoRS 2023 authors for their scientific contributions to this publication.

We would also like to convey our sincere gratitude for all the reviewers for their given time and constructive comments on the manuscripts.

We would like to then express our gratitude to the Editorial members generally and the proceedings section particularly for their hard work.

Eventually, we are looking forward to the next ICONLIG meetings.

Robertus Wahyu N. Nugroho, Ph. D
Editor-in-Chief of ICONLIG-IWoRS 2023
The 3rd International Conference of Lignocellulose
in Conjunction with
The 15th International Symposium of IWoRS

Research Center for Biomass and Bioproducts
The National Research and Innovation Agency

CALL FOR ABSTRACTS

"Exploring the Green Syntheses, Technologies, and Materials for a Sustainable Future"

Dr. Iman Ridayat
Chairman of Research Organization for Life Sciences and Environment, BRIN, Indonesia

Prof. Thaddeus Maloney
(Aalto University, Finland)

Prof. Martie Lawoko
(KTH, Sweden)

Dr. Tina Schneider
(Departmental Director, Forest Bioenergy Initiative, WRc UK, USA)

Prof. Sudesh Kumar
(USM, Malaysia)

Assoc. Prof. Torbjörn Pettersson
(KTH, Sweden)

Dr. Tero Kämäräinen
(Valio Medical and Pharmaceutical University, Japan)

Prof. Jukka Seppälä
(Aalto University, Finland)

Assoc. Prof. Richard T. Olsson
(KTH, Sweden)

Dr. Lihao Jiao
(Distinguished Professor of Research Institute of Wood Industry, Chinese Academy of Forestry, Beijing, China)

Assoc. Prof. Timo Lockininen
(University of Helsinki, Finland)

Dr. Jianxi Zhu
(USDA Forest Service, Forest Products Laboratory, USA)

Dr. Katarina Salmin
(Valio Research Center, Finland)

Dr. Ahmad Ilyas bin Rushdan
(Universiti Teknologi Malaysia, Malaysia)

The conference will be conducted as scheduled below:

Registration
20 September 2023

ICONLIG – IWoRS Conference
21-22 September 2023

Excursion
23-24 September 2023

Conference scopes:
- Green Chemistry and Biorefinery
- Sustainable Bioceramics
- Advanced Structural, Functional, Biocompatible, and Green Biomaterial
- Sustainable Forest Management
- Innovative Technology of Syntheses and Characterization of Biomass Product
- Biocomposite and Bioplastic

Important Dates

15 July 2023
Submission Deadline (Abstract)

15 July 2023
Early Bird Payment Deadline

20 August 2023
Full Paper Submission

15 September 2023
Payment Deadline

21-22 September 2023
Conference Days

Conference fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Early Bird*</th>
<th>Normal*</th>
<th>Participant only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local</td>
<td>1,250,000 IDR</td>
<td>1,500,000 IDR</td>
<td>250,000 IDR</td>
</tr>
<tr>
<td>International</td>
<td>125 USD</td>
<td>150 USD</td>
<td>25 USD</td>
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</tbody>
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*exclude publication and excursion fees
*300,000 IDR discount for MAPEKI member

Publication
The selected papers will be published in:
- Journal of Applied Polymer Science (Scopus Indexed Q2; SJR 0.55)
- JCR WoS Q3; IF 3.057
- Journal of Sylva Lestari (Scopus Indexed Q4; SJR 0.2)
- Indonesian Journal of Forestry Research (Scopus Indexed Q3; SJR 0.2)
- BIO Web of Conference (Scopus and WoS Indexed)
- IOP Conference Series: EES (Scopus and WoS Indexed)
- and others*

* to be confirmed

Special Event
Excursion to Kepulauan Seribu*

Available packages:
Cottage (2 person/cottage) 1,800,000 IDR/person
Standard (4 person/room) 1,500,000 IDR/person

* Excursion payment deadline is 20 August 2023

Visit our website:
s.id/iconlig-iwors2023