

ISBN

PROCEEDING ISBINARU

International Symposium
on Bioeconomics of
Natural Resources
Utilization

Center for Plant Conservation Botanic Gardens,
Indonesian Institute of Sciences



FOOD
HEALTH
ENERGY
ENVIRONMENT

BOGOR, 12 - 14 OCTOBER 2017

PROCEEDING
INTERNATIONAL SYMPOSIUM
ON BIOECONOMICS OF
NATURAL RESOURCES UTILIZATION
12-14 OCTOBER 2017

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Preface

Proceeding of the International Symposium on Bioeconomics of Natural Resources Utilizations (ISBINARU) 2017 is a compilation of papers presented in the symposium which was held on 12-14 October 2017 in Bogor Botanic Gardens. The symposium was part of the **LIPI 50'years Anniversary and Bicentenary of Bogor Botanic Garden** events, and conducted in collaboration between Life Sciences Deputyship - LIPI with Heriot Watt University, United Kingdom and Feng Chia University, Taiwan.

The ISBINARU 2017 was intended to present an information on the utilization of Indonesian bioresources for scientific society and also public stake holder on four [4] specific issues. The objectives of the event are (a) to pool and gather scientists from different areas of expertise (b) to present and exchange the current research results and information in related topics of bioresources utilization, and (c) to strengthen research collaboration among participants and/or institutions. This symposium embraces four main themes, i.e. (1) **Food** (technology, value added products, food safety and food security), (2) **Health** (technology, innovative products, traditional knowledge, current issues), (3) Bioresources based **Energy**, and (4) **Environment** (current environment issues, conservation, managements).

The symposium was attended by 151 participants, including 20 speakers, 76 presenters, 15 people from public communities, and 40 invited guests. Keynote and invited speakers were from Indonesia, Taiwan and the UK, covering researchers, academicians, government institutions, and industries. Papers presented in this proceeding has gone through scientific reviewers.

At last, we would like to present our gratitude to all speakers, participants, reviewers, and committees for the success of the symposium. We hope that this proceeding will be useful for further research. Should you have any constructive suggestions, please do not hesitate to contact us.

Bogor, July 2018

Dr. Didik Widyatmoko, M.Sc.
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