

# GoGreen 1

*by* Penilaian Jafa

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# 6<sup>th</sup> GoGreen Summit & Awareness on Climate Change

*"Socio-economic scenarios and Environmental Consequences of Human activities causing Climate Change"*

**Hotel Santika Premiere Malang**  
**Malang, Indonesia**  
**01<sup>st</sup> - 02<sup>nd</sup> July, 2020**

Organized by:  
**BioLEAGUES Worldwide**

Co-Hosting Organizations:



## Preface

This book reports the Proceedings of the “**6<sup>th</sup> GoGreen Summit & Awareness on Climate Change**” held at **Hotel Santika Premiere Malang, Malang, Indonesia on 01<sup>st</sup> & 02<sup>nd</sup> July 2020**, organized by **BioLEAGUES Worldwide**.

The publishing department has accepted more than 110 abstracts. After an initial review of the submitted abstracts, 50 papers were presented at the conference and were accepted for publication in the Conference Proceedings. The topics that are covered in the conference include Global Warming, Pollution types & Control techniques, Renewable Energy, Recycling and Reuse, Biodiversity, Green Energy, Environmental Toxicology, Environmental Engineering, Circular Economy, Agriculture, Earth Science. We would like to thank all the participants for their contributions to the conference and the proceedings.

Reviewing papers of the **6<sup>th</sup> GoGreen Summit** was a challenging process that relies on the goodwill of those people involved in the field. We invited more than 15 researchers from related fields to review papers for the presentation and the publication in the conference Proceedings book. We would like to thank all the reviewers for their time and effort in reviewing the documents.

Finally, we would like to thank all the proceeding team members who with much dedication have given their constant support and priceless time to bring out the proceedings in a grand and successful manner. I am sure this **6<sup>th</sup> GoGreen Summit** proceeding will be a credit to a large group of people, and each one of us should be proud of its successful outcome...

**6<sup>th</sup> GoGreen Summit**

## **From BioLEAGUES Director's Desk...**

On behalf of **BioLEAGUES Worldwide**, I am delighted to welcome all the delegates and participants around the globe to the “**6<sup>th</sup> GoGreen Summit & Awareness on Climate Change**” which is going to be held at **Hotel Santika Premiere Malang, Malang, Indonesia on 01<sup>st</sup> & 02<sup>nd</sup> July 2020**. This conference will revolve around the theme “ *Socio-economic scenarios and Environmental Consequences of Human activities causing Climate Change*”.



It will be a great pleasure to join with Doctorates, Research Scholars and Academicians all around the globe. You are invited to be stimulated and enriched by the latest innovations in all the aspects of Environment issues and prevention techniques, while delving into presentations surrounding transformative advances provided by a variety of disciplines.

I congratulate the Chair person, Organizing Secretary, Committee Members, coordinator BioLEAGUES and all the people involved for their efforts in organizing the **6<sup>th</sup> GoGreen Summit**, Bali, Indonesia and successfully conducting the International Conference and wish all the delegates and participants a very pleasant stay at Indonesia.

**A. Siddh Kumar Chhajer**  
Director  
BioLEAGUES Worldwide

## Welcome Message from the Organizing Secretary



Dear Professional Researchers, Presenters, and Participants,

It is a great pleasure to welcome all of you in the "6<sup>th</sup> GoGreen Summit and Awareness on Climate Change." Theme of this GoGreen Summit 2020 is "Socio Economic Scenarios and Environmental Consequences of Human Activities causing Climate Change." I would like to take this opportunity and thank to all the Organizing Committee for their hard work and dedications to held this International Conference in Malang Indonesia successfully. I warmly welcome all participants, presenters, and attendees from all over the world to this conference and look forward to your participation.

With complement of

The Organizing Secretary  
Dr. Ir. Bambang Sugiyono Agus Purwono, MSc  
State Polytechnic of Malang – Indonesia

## Welcome Message from the Keynote Speaker



On behalf of Agribusiness Department, Faculty of Agriculture and Animal Science, University of Muhammadiyah Malang, Indonesia, it gives me a great pleasure to extend greetings and a warm welcome to everyone attending the “6<sup>th</sup> GoGreen Summit and Awareness on Climate Change 2020” on 01<sup>st</sup> - 02<sup>nd</sup> July 2020, Malang Indonesia. I am really happy and delighted that the organization has included me (Dr. Rahayu Relawati) from University of Muhammadiyah Malang, Indonesia, as a cohost to arrange this wonderful event.

On this extraordinary meeting, the organizing committee welcomes participants from all over the world to join in this summit. I sincerely thank you all for your commitments and efforts in attending, preparing and presenting your innovative and valuable research and findings at this conference. I also extend a warm welcome and gratitude to those of you who have joined us at the meeting to support your colleagues and to learn much from the other presenters. An episode of this greatness will distribute a generous opening for scientists, researchers, academicians to learn about socio-economic aspects and environmental consequences related with climate change.

Climate change has an impact on various socioeconomic aspects of agriculture and agribusiness. In the aspect of production, farming of various food crops and horticulture has decreased the quantity and quality of product. Cropping patterns also changes and shifts in schedules due to the uncertainty of weather. In terms of food consumption, farmers' families and rural communities in general face a decrease of food availability, as a result of the decline in farming production and farmers' purchasing ability. Macro food security at the regional level also faces a serious threat due to climate change. Various mitigation and adaptation efforts to climate change need to be done continuously and become a priority in the agricultural development strategy. Nationally, the agribusiness of Indonesia's export crops also faces serious problems related to climate change.

I am sure that this summit will give remarkable effect for the understandings of scientific knowledge in the areas of socio-economics of agriculture and agribusiness and its' applications in numerous aspects. I wish grand success of this event.

Dr. Rahayu Relawati  
Faculty of Agriculture and Animal Science  
Department of Agribusiness  
University of Muhammadiyah Malang,  
Indonesia

## **From BioLEAGUES CEO's Desk...**

It is indeed a privilege to acknowledge and thank all the supporters and organizers of the “**6<sup>th</sup> GoGreen Summit & Awareness on Climate Change**”, who contributed greatly to organize the conference successfully.

I would like to acknowledge and thank the Chief Guest for his/her valuable contribution in the **6<sup>th</sup> GoGreen Summit, Malang, Indonesia**.

My special thanks to all our Special Guests who so graciously accepted our invitation to participate in the conference. I also wish to acknowledge and thank the sponsors of the conference whose financial support was extremely grateful.

I would like to specially thank our Advisory Committee Members from various Organization whose continuous support have helped us plan and execute the conference successfully.

I am highly indebted to the contribution given by all the Scientists, Doctorates, Research Scholars, Academicians and students to the conference.



A handwritten signature in black ink, appearing to read 'R. B. Satapathy'.

**Mr. R. B Satapathy**  
CEO  
BioLEAGUES Worldwide

# Keynote Speakers





## **The Indigenous Javanese Perception toward Green Home: The Application of Greenship Rating Index**

**Maranatha Wijayaningtyas**

National Institute of Technology (ITN) Malang, Indonesia

**Fourry Handoko**

National Institute of Technology (ITN) Malang, Indonesia

### **Abstract**

As the history of Javanese culture tells, the people take environmental, social and economic life into account when building a home; these three aspects are the main pillars in sustainable development. Consequently, in Javanese society, home and the success of sustainable development are inseparable. Concerning this phenomenon, it is essential to learn the perception of indigenous Javanese towards the application of green home as one of the sustainable development aspects; it is measured using the Greenship Rating Index for green home issued by the Green Building Council Indonesia. This research employed a quantitative approach with a survey as its method, which was conducted using purposive random sampling. The respondents were indigenous Javanese who bought a house with the concept of a green home in Malang and Surabaya; 200 data were obtained from the survey. After conducting a descriptive analysis, it was found that among six criteria of Greenship, land use, efficiency, and energy conservation, as well as environmental management of buildings are the highest three in the respondents' perception. In conclusion, the Javanese indigenous's perception of a green home is still limited to location, energy savings, and social needs. Thus, all stakeholders are required to socialize the fulfillment criteria of a green home according to Greenship; it is essential for the success of sustainable development in Indonesia.

Biography: Maranatha Wijayaningtyas is a Senior Lecturer on the Civil Engineering Postgraduate Program at the National Institute of Technology Malang, East Java. The concern of her research topics is on construction and project management, also property management toward sustainability. Furthermore, she is interested in connecting those topics with Indonesia's culture and explores the phenomenon within.

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