

# GoGreen 2

*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 handwritten signature in blue ink that reads "A. Siddh Kumar Chhajer". The signature is written in a cursive style.

**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



## **Long Storage Design Optimization for Flood Control and Ecotourism in the Downriver of *Kali Kemuning***

**Kustamar**

National Institute of Technology Malang, Indonesia

**Maranatha Wijayaningtyas**

National Institute of Technology Malang, Indonesia

### **Abstract**

In consequence of various factors coming from the upriver to downriver, frequent flooding in Kali Kemuning (“Kali” means river) is relatively arduous to deal with. Flooding in the upriver areas is caused by low capacity watershed. This problem is solved by implementing a Land Conservation Strategy of combined actions of maximizing the amount of rainwater seeping down to the ground, and providing irrigation water. Moreover, the tides at the Kali Kemuning estuary affect flooding in Sampang city as they carry the backwater which rises the river water level during the flood. To deal with this effect, the control system performance needs to be maximized by making: (1) temporary water reservoirs, (2) floodgate, and/ or (3) pump. The flooding in the middle of the river is caused by channel narrowing that leads to reduced river capacity. Channel normalization through riverbed deepening in the downriver is obstructed by tidal elevation. Nevertheless, river channel widening requires land acquisition which is a no easy task to do if the river channel flows through urban areas. Eventually, the river capacity is increased by installing vertical walls of steel file types and deepening the river beds. This strategy can increase the capacity of flood distribution and storage. The temporary storage capacity of river channel normalization can contain 33,000 m<sup>3</sup> of the river water. Conclusively, community participation is increased by utilizing normalized river channels for tourism purposes, such as boating, and inland fisheries. These activities are expected to improve the economy and public awareness.

### **Keywords**

Urban Flood, Irrigation System, Retention Pond, Pump.



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M Wijyaningtyas, F Handoko, S Hidayat. "The millennials' perceived behavioural control on an eco - friendly house purchase intention", Journal of Physics: Conference Series, 2019

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