



4th GoGreen Summit

Holiday Inn Express Kuala Lumpur City
Centre, Malaysia

Organized by:
BioLEAGUES Worldwide

In Association with



From BioLEAGUES Directors's Desk...

On behalf of Bioleagues, I am delighted to welcome all the delegates and participants around the globe to Holiday Inn Express Kuala Lumpur City Centre, Malaysia for the **"4th GoGreen Summit"** which will take place from 29th – 30th December '18

This conference will revolve around the theme **"Conflicts and Solutions concerning Climate Change & Sustainable Green Environment"**.

It will be a great pleasure to join with Academicians, Students, Research Scholars and Industrialists 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 reviewing committee, coordinator of Bioleagues and all the people involved for their efforts in organizing the event and for successfully conducting the 4th GoGreen Summit. I wish all the delegates and participants a very pleasant stay at Kuala Lumpur, Malaysia.



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Message from the Conference Chair

It is a big pleasure to me on behalf of the Organizing Committee of a two-day International Conference of **4th Go Green Summit** to welcome all the delegates and participants of this conference held at **Holiday Inn Express, Kuala Lumpur, Malaysia** on December 29th & 30th, 2018.

As stated in the title, the scope of the conference covers about Sustainable Development of Environmental Science and Engineering towards climate change and Environmental Health, for the smart living, which are in a fact, requires many disciplines that constitute engineering as a whole and united field.

We are whole-heartedly knowledgeable that differs from academic fields and industry professionals, this conference may also give opportunities to under and post graduate students and research scholars alike to take an active part and present research papers.

By doing so, they will not only gain greater insight into their discipline, but also contribute to the existing body of knowledge in that domain.

I am certain that the conference will prove to be a healthy point of academic interaction and so the students and faculty members as well will not only give but also benefit and draw inspiration also networking from the talks and presentations from the distinguished guests.

I would like to express my deep appreciation to keynote speakers for the efforts to present the ideas and methods in a lively and accessible way.

Finally, but not least, I would like to thank those who have responded to our call to take part and to contribute to this conference. We have a big hope that all of you enjoy, and get more knowledge and fruitful experience through the conference.

Bambang Sugiyono Agus Purwono
State Polytechnics of Malang, Indonesia



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Message from the Conference Co-Chair

The planet's average surface temperature has risen about 1.62 degrees Fahrenheit (0.9 degrees Celsius) since the late 19th century, a change driven largely by increased carbon dioxide and other human-made emissions into the atmosphere. Most of the warming occurred in the past 35 years, with the five warmest years on record taking place since 2010. Not only was 2016 the warmest year on record, but eight of the 12 months that make up the year — from January through September, except for June — were the warmest on record for those respective months. Going green just means finding ways to make your home and lifestyle more energy and eco-efficient. This can include making changes to your utilities and how they serve you, shopping locally instead of shopping online, and reducing your carbon footprint altogether.

With that in the picture, BioLEAGUES Worldwide welcomes you to “4th GoGreen Summit” at Holiday Inn Express, Kuala Lumpur, Malaysia. This International Conference assures to be an interactive and informative event which will explore the issues, innovations and integrated approaches towards environmental sustainability and climate change. The speakers from various discipline around the world gather at “4th GoGreen Summit” to speak on Sustainable Development of Environmental Science and Engineering towards climate change and Environmental Health. In this GoGreen Summit, participants can take part in a number of educational formats including General Sessions, Oral Presentations, Poster Presentations, Workshops/Symposium and other interactive sessions. Have a fruitful meeting and enjoyable stay in Kuala Lumpur.

Dr. Erry Yulian T. Adesta

International Islamic University Malaysia

Message from the Secretary

I take the pleasure of inviting all the eminent scientists, academicians and researchers coming from all over the country and abroad to attend 2018 Annual Conference, “4th GoGreen Summit”. I would like to thank the BioLEAGUES Worldwide authorities in conferring me the responsibility of conducting this prestigious International Summit. This conference will focus on the themes covering various fields like Climate Change and Climatology, Global Warming Effect & Causes, Environmental Sustainability, Solid Waste Management, Bioenergy and Biofuels and Renewable Resources, with a clear perspective to solve research problems holistically.

It lays a platform for researchers to interact with most renowned speakers from various parts of the world. The present conference brings together the eminent scientists and academicians across the globe with different disciplines of environmental research. The conference shall mainly focus to explore the current issues, innovations and integrated approaches towards environmental research. This conference will be elevating the role of renewable resources in the management of a sustainable man friendly environment. The conference will highlight the ways in which technologies in combination with best practices and evidence-based policies can improve regional, national and global in the field of climate change. Your participation will make this conference half success and I am sure that your active presence, discussions and debates shall make this conference a grand success.

On behalf of 4th GoGreen Summit organizing committee, I warmly welcome the delegates, to share their knowledge among the scientific community with active interactions during these 2 day conference and I wish to have a pleasant time in Kuala Lumpur, the capital city of Malaysia.



Arifullah Mohammed
Universiti Malaysia Kelantan, Malaysia

Preface

This book reports the Proceedings of the *4th GoGreen Summit* held at *Holiday Inn Express Kuala Lumpur City Center, Malaysia* on the 29th & 30th of December – 2018, organized by *BioLEAGUES Worldwide*.

The publishing department has accepted more than 90 abstracts. After an initial review of the submitted abstracts, 42 papers were presented at the conference and were accepted for publication in the Conference Proceedings. The topics that are covered in the conference include Climate Change & Climatology, Global Warming effects & causes, Environmental Sustainability, Pollution & its effects, Solid Waste Management, Waste Water Treatment, Renewable Resources, Agriculture, Circular Economy, etc... We would like to thank all the participants for their contributions to the conference and the proceedings.

Reviewing papers of the *4th GoGreen Summit* was a challenging process that relies on the goodwill of those people involved in the field. We invited more than 20 researchers from related fields to review papers for the presentation and the publication in this Conference Proceeding. 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 *4th 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...

GoGreen Summit

Keynote Speakers



Investigation of quality characteristics of groundwater in northern Kelantan, Malaysia.

Mohammad Muqtada Ali Khan

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Abstract

The present study focuses on the assessment of the major ions and in-situ parameters in shallow groundwater in northern parts of Kelantan, Malaysia. Groundwater resources are the main source of domestic water supply in the region. 29 groundwater samples and 3 surface water samples from the study area were analysed in 2016. All the samples were used for domestic purpose. Efforts were made to interpret the probable sources of the major ions present in the samples. The results were compared with the World Health Organization (WHO) and Ministry of Health (MOH) guidelines to evaluate the appropriateness of groundwater for drinking and other domestic purposes. Based on the analysis most of cations and anions are found in moderate concentrations and are below the permissible limits as established by WHO and MOH and are deemed suitable for various domestic purposes. The interaction of the groundwater with the various geological formations, during its lateral subsurface movement influences its hydro chemical characteristics

Key Words:

Groundwater, quality, shallow aquifers, Kelantan

Biography:

Mr. Khan, presently working as a senior lecturer in Faculty of Earth Science, University Malaysia Kelantan since 2011 to till date. After completing his doctorate from Aligarh Muslim University, he joined in October 2009 as a postdoctoral fellow for eighteen months in Universiti Sains Malaysia, and worked on Development of a Quantitative Risk Assessment Model for Landslide in Malaysia. His research is mainly focused on hydrogeological modelling, conventional groundwater quality assessment, groundwater recharge and contamination studies using stable isotopes. He has also been involved in a project on groundwater development resources and seawater intrusion into groundwater in states of Kelantan Malaysia.



The Simulation Effect of the Water Flowrate, Turbine Type, and It's Interaction to the Power Generated by MHPP

Bambang Sugiyono Agus Purwono

Politeknik Negeri Malang - Indonesia

Awan Setiawan

Politeknik Negeri Malang - Indonesia

Supriatna Adhisuwignjo

Politeknik Negeri Malang - Indonesia

Abstract

The Indonesian energy demand is growing faster and the non-renewable energy decreased very rapidly, so the government try to shift and to look for an alternative energy to prevent future scarcity of energy resources. One alternative used is to utilize water energy. Water is one of the most renewable and environmental friendly energies so it has the potential to reduce dependence on current energy use (petroleum, oil, gas, and coal). The purpose of this research is to simulate effect of turbine type and water flowrate to the power generated by Micro Hydro Power Plants (MHPP). The research method uses experimental design with null hypothesis: there is no effect of turbine type to the power generated by water turbine and there is no effect of water flowrate to the power generated by MHPP. There are two type of MHPP are Pelton and Crossflow type. The research result is rejected the null hypothesis, it means there is an effect of turbine type to the power generated by water turbine and there is an effect of water flowrateto the power generated by water turbine.

Keyword:

Pelton, Crossflow, water flowrate, MHPP, water energy, power.

Biography

Dr. Ir. Bambang Sugiyono Agus Purwono, MSc born in Maospati, Indonesia, 5th March 1954. A lecturer in Mechanical Engineering Department - State Polytechnic of Malang, Indonesia. Bachelor of Science in Mechanical Engineering, Faculty of Technology, Brawijaya University, Malang, Indonesia

(1982). Master degree in Industrial Engineering, ITB, Bandung, Indonesia (1988). Doctor in Management Science, Faculty of Economics and Business, Brawijaya University, Malang, Indonesia (2011).

Textbooks have already published are Strategic Planning, Production Management, Heat Transfer, Maintenance Management, Entrepreneur and Technopreneur, and Research Methodology.

Also as a speaker in numerous international conferences and national seminars about Entrepreneurship and Cooperative, Balance Scorecard, SWOT Analysis, Strategic management, and Renewable Energy, Wind Turbine, Plastic Waste, Quality Control, Water Treatment Plants, and MHPP in Malang, Bali, Yogyakarta, Bandung, Jakarta, Timor Leste, Melbourne (Australia), Hong Kong Polytechnics University (Hong Kong), National Institute of Technology (Tiruchirappalli - India), Bangkok- Thailand, and Manila – Philippines.

HIV AIDS advocacy in Bangkok and Wuppertal German as a participants are sponsored by UNAIDS.



Organic framework based metal Nano catalyst for waste water treatment

Dr. Irshad Ul Haq Bhat

School of Fundamental Science, Universiti Malaysia Terengganu, Kuala Terengganu, Malaysia

Abstract

Water pollution has produced a significant threat to the ecological system as well as public health. The higher level of pollutants in wastewater bodies can reach to humans and can cause serious neurotoxicity, blood toxicity, kidney ailments, liver damage, and teratogenicity. The discharge of different pollutants generated from fertilizers, pesticides, leached from landfill, textile, leather, paper production, industries is a great threat to the ecosystem. A varied range of conventional treatment methods and techniques (e.g. chemical coagulation, activated sludge, trickling filter, carbon adsorption, and photodegradation techniques) for removal such pollutants have been used and investigated extensively. But the real problem remains a huge threat as these pollutants are not been actually removed but transformed from one media to other. Thus, a novel approach with a goal of complete destruction of these pollutants is a need of time. The nano-size catalysts can provide a sustainable approach and curb the problem to a greater extent. The metal coordinated nanocatalyst with organic framework can add new avenues for this research so that smaller amounts of well-coordinated metal catalysts can destroy larger amounts of pollutants with least possibility of leaching the coordinated metals as the organic framework can provide a large number of functional groups.

Biography:

I have received all degrees B.Sc. (Hon's), M.Sc. and Ph.D. from Aligarh Muslim University, India. I have worked as a Project Associate in a project sponsored by Department of Biotechnology (DBT) New Delhi, India. From May 2009-May 2012, I have worked as a postdoctoral fellow, School of Industrial Technology, University of Science Malaysia (UMK). Later joined the University of Malaysia Kelantan as a Senior Lecturer till December 2018 was awarded Excellence Service Award by UMK. I have published more than 30 papers, 6 book chapters, 10 abstracts, 23 papers presented in conferences and given 5 invited talks. My current research areas are Synthetic chemistry, Medicinal Inorganic Chemistry, Nano Catalysis and water treatment, Preparation of nanoparticles by green synthesis, Material Science (Nano-Bio composites).

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ABSTRACTS



Lecturer Research Policy in Higher Education in Indonesia

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Abstract

This article aims to examine the research policies of lecturers in higher education in Indonesia. Based on the library research method, the following conclusions can be found: 1) Producing research that is in accordance with national development priorities; 2) Ensure the development of specific superior research based on comparative and competitive advantages; 3) Achieve and improve quality according to the target and relevance to the community; 4) Increase dissemination of research results and protection of Intellectual Property Rights (IPR). The standards of lecturer research policies, namely: 1) Standard direction of research refers to research maps based on the vision and mission of higher education; 2) Standard research processes include: planning, implementation, control and research quality improvement systems; 3) Standard results, namely fulfilling standard universal scientific rules; 4) Competency standards, namely the competence of researchers in accordance with universal scientific rules; 5) Funding standards, which are in accordance with the principle of autonomy and accountability; 6) Standard facilities and infrastructure to produce valid scientific findings; and 7) Standard outcomes, namely research activities must have a positive impact on the development of nations and countries in various sectors.

Keywords:

Policy, Research, Lecturer

Biography

Dr. H. Mulyono, MA. born in Ponorogo - East Java – Indonesia, June 26, 1966. Lecturer in State Islamic University of Maulana Malik Ibrahim. Complete Bachelor in Islamic Education Management (1999) and Masters in Islamic Education Management at Malang State Islamic University (2002), and Doctoral Program in Educational Administration from Bandung University of Education (2011).