The Third Conference on Sustainability Science

PREFACE

Interconnectedness is one of the keywords to understand sustainability. This is particularly true in the context of achieving sustainable human and nature relation. Interconnectedness is not only about interrelation of different systems (natural and social systems), but more than that it is also about interdependency. This is what ecology all about. Without recognizing the meaning of interconnectedness, the discussion on sustainability will end up nowhere. In fact, ecological sustainability is the foundation of much of sustainability thought and science.

To discuss sustainability issues, it is imperative to use the science of ecology as the platform. Despite ecology as the backbone of sustainability science is still developing and forming new theories and concepts that are important to advancing sustainability science, its practicality should be emphasized since sustainability science as an emerging science needs theories integrated with practices. Sustainability science needs this integration because it is a use-driven and solution-base science.

On the basis of the rationales mentioned above, the theme of the 3rd Conference on Sustainability Science is ‘Ecology and Sustainability Science: from Theory to Practice’. Through this theme, ecology will be discussed from different perspectives in relation to the practices of sustainability science. Scholars, government officials, non-governmental organizations, medias and general public will be expected to take part in the conference.

We are grateful to all keynote and invited speaker in this conference, were listed below:

1. Prof. Diego Vazquez-Burst, Professor at University of Portsmouth, UK and Visiting Professor at Federal University of Santa Catarina, Brazil.
2. Ir. Wiratno, M. Sc, Ministry of Environment & Forestry, Republic of Indonesia.
3. Prof. Dr. Michiel A. Heldeweg LL.M, University of Twente, The Netherland.
4. Prof. Hans Bressers, University of Twente, The Netherland.
5. Prof. Makoto Yokohari, University of Tokyo, Japan.
6. Prof. Dr. Joseph Sarkis, Foisle School of Business Worcester Polytechnic Institute, USA.
7. Prof. Dr. Yunita T Winarto, Universitas Indonesia.
8. Roy Huijsman Ph.D, ISS Erasmus Rotterdam, The Netherland.

The 3rd CSS 2018 results in a collection of 70 oral and 8 poster presentations and through strict selection resulted 37 full papers covering 4 major topics: (1) Conservation, ecosystem services, urban and rural development, (2) Bio-economy, circular economy, business and policy (3) Ecology, resilience and environmental hazards/vulnerability, and (4) Inclusive education, social and technologic innovation.

It is not too exaggerating that the 3rd Conference on Sustainability Science held on October 9-10 2018 at Universitas Padjadjaran is part of the pathway in achieving sustainable human and nature relation. Moreover, the conference is expected to provide opportunity to build common and better understanding among different parties about sustainability science in theories and practices.

Committee of the Third Conference on Sustainability Science
FOREWORD
Greening for Industries

In October of 2016, the Organisation for Economic Co-operation and Development (OECD), presented a report on Green Growth in Bandung, Indonesia. It was a recognition that this bustling conglomerate city, like most cities in emerging economies throughout the world, is in dire need of a green growth strategy. The report urges a relationship between a number of systems that can support this complex environment’s sustainability. These interrelationships are at the crux of Sustainability Science, the theme of this conference, located in Bandung.

Bandung is at the center of some of the world’s most ecologically sensitive and biodiverse regions. It is appropriate that we have a conference on these issues here to, at a minimum, raise awareness of the issues in a region where the concerns are easily observable.

The Greening of Industry Network (GIN) is in its third decade of bringing together some of the world’s leading thinkers from academia, industry, government, and civil society. GIN began when Kurt Fischer and Johan Schot met to discuss the idea of creating a knowledge platform (GIN) to enable the interaction among stakeholders who had questions about how the industry could become greener and sustainable.

This event is the first time we are holding a GIN sponsored conference in a region that spans Oceania and Southeast Asia. It is well known that this region of the world has come under various environmental and social pressures. These pressures include island nations directly impacted by climate change, biodiversity concerns, increased urbanization, and poverty, to name some of the biggest concerns.

But, this region, as in every region of the world, has the knowledge and skills to be able to address these complex, “wicked problem”, issues. This conference on Sustainability Science brings people from many regions to discuss and address these complex systemic concerns.

We expect a dialogue and hopefully some action from various disciplines and vocations. Sustainability science requires a transdisciplinary focus. Where use-driven science meets social systems, and eventual implementation of solutions.

We will not have all the solutions; but through our linkage to past and future investigations from GIN and other sources, a broader picture is expected to emerge.

It is our pleasure to be sponsors of this Sustainability Science Conference and supporting events. We wish to thank Universitas Padjadjaran in hosting this important event. We also wish to commemorate Dies Natalis 60th of Universitas Padjadjaran. There are many people to thank for making this conference a reality with dozens of individuals necessary to make up the Advisory, Steering, Organizing, and Scientific Committees.

We look forward to a stimulating and energetic conference.

Greening of Industry Network (GIN) Coordinators
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Centre for Environment and Sustainability Science, Graduate Program on Environmental Sciences and Graduate Program on Sustainability Science to commemorate 61st of Dies Natalis, Universitas Padjadjaran

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