

TERM OF REFERENCE

**ICYES
2023**

**INTERNATIONAL COLLOQUIUM
ON YOUTH, ENVIRONMENT
AND SUSTAINABILITY 2023**



Introduction



In the evolving era of globalization, various sectors of human life are undergoing profound changes. One highly influenced aspect is the bioproduction system, where biological products such as food, medicines, chemicals, and energy are produced through biotechnological and genetic engineering processes. The bioproduction system is an integral part of the global supply chain and plays a crucial role in meeting human needs.

Globalization has reshaped the way the world interacts and does business. Changes in information technology, transportation, and communication have reduced geographical barriers and opened opportunities for closer international collaboration. Alongside this, challenges such as climate change, sustainability of natural resources, and increasing demand for environmentally-friendly products drive scientists, researchers, and industries to seek new ways of managing the bioproduction system.

In this context, the question arises: how can the bioproduction system adapt to this era of globalization, and how can changes in economic, environmental, and social dynamics impact its processes and production? While globalization offers opportunities for broader market access, increased knowledge exchange, and cross-border innovation, it also presents new challenges in terms of regulation, ethics, and risk management.

In the advancing era of globalization, the younger generation holds a crucial role in shaping and guiding the future. One of the main challenges the world faces today is addressing climate change, fulfilling global food needs, and managing natural resources sustainably. Amidst the complexity of these challenges, the bioproduction system plays a crucial role in providing fundamental biological products for human life.

The younger generation holds significant potential to be a driving force in developing innovative solutions to the challenges faced by the global bioproduction system. They are growing up in an era where technology, information, and international collaboration are more accessible than ever before. The ability to communicate and work across borders enables new ideas to overcome constraints in biological production, optimize resource utilization, and create positive impacts on the environment and society.

Looking towards the future, it is important to explore the directions taken by the bioproduction system amidst these global changes. How will new technologies, such as advanced biotechnology, genetic engineering, and sustainable production, shape the bioproduction industry? How will environmental and conservation aspects be integrated into biological production processes? How can the distribution of benefits from the global bioproduction system be balanced to achieve justice and sustainability? Additionally, how can the involvement and role of youth in the bioproduction system serve as a driving force for the sustainability of the bioproduction system in the future?

Reflecting on the current state of globalization, the sustainability of the bioproduction system in the era of globalization and the engagement of youth in the bioproduction system become intriguing topics for discussion. Therefore, the Center for Environment and Sustainability Science (CESS) at Universitas Padjadjaran is organizing the **International Colloquium on Youth, Environment, and Sustainability under the theme "*The Future of the Bioproduction System in a Globalized World.*"**

Event Theme



Scope

1. Social and Economy
2. Biology and Conservation
3. Environment and Industry
4. Energy and Technology
5. Youth and Bioproduction Systems

Objective

This symposium will discuss how the bioproduction system can develop sustainably, ethically, and efficiently within the evolving context of globalization, as well as the role of society, especially the youth, in addressing challenges and issues in bioproduction around the world.

Participants



- Students
- Early Career Researcher
- Communities
- Media
- Activist

Organizer

Advisor Commitee

- Rector of Universitas Padjadjaran
- Vice Rector for Academic and Students Affairs – Universitas Padjadjaran
- Vice Rector for Planning Finnance and Information System Universitas Padjadjaran
- Vice rector for Research. Community Services, Collaboration, Innovation & Academic Corporation Universitas Padjadjaran
- Vice Rector for Governance and Resources Universitas Padjadjaran

Scientific Commitee

- Prof. Parikesit M.Sc. Ph.D
- Prof. Sunardi, M.Si., Ph.D
- Dr. Susanti Withaningsih, M.Si
- Dr. Gemilang Lara Utama, M.I.L
- Dika Supyandi, SP., MT., MDP

Steering Commitee

- Prof. Parikesit M.Sc. Ph.D
- Prof. Dr. Med. Setiawan, dr.
- Dr. Ira Irawati, M.Si
- Dr. Susanti Withaningsih, M.Si
- Dr. Gemilang Lara Utama, M.I.L
- Dika Supyandi, SP., MT., MDP

Organizing Committee

- Fakrur Rozi, S.Si
- Riky Novalia Suhendi, S.Ant, M.I.L
- Annas Dwitri Malik, S.Si, M.Si
- Fathimah Noorahya, S.Si, M.Si
- Dwiputri Handayani S.Si.

Time and Venue



Time : November, 15 2023

Venue : Hybrid Conference, offline at Graduate School, Universitas Padjadjaran, Bandung and online in Zoom Video Conference (GMT+7)

Speakers

- Prof. Arief Anshori Yusuf, Ph.D – Universitas Padjadjaran, Indonesia
- Prof. Dr. Cristino L. Tiburan Jr., Ph.D – University of the Philippines Los Banos, Philippines
- Dr. Osamu Saito, Ph.D – Institute for Global Environmental Strategies (IGES), Japan
- Dr. Gemilang Lara Utama Saripudin, S.Pt., M.I.L – Universitas Padjadjaran, Indonesia
- Luciana Itikawa, Ph.D - University of Sao Paulo, Brazil
- Deepak Kumar Verma, Ph.D – Indian Institute Technology Kharagpur, India

Publication

High-quality papers will be encouraged to be published in:



E3S Web of Conferences

Scopus Indexed Conference Proceeding



Ecodevelopment Journal

ISSN: 2597-4262 (Print) - 2597-4262 (Online)

Guest Editors:

1. Bibin Bintang Andriana, Ph.D.

- Department of Biomedical Chemistry, Graduate School of Science and Technology, Kwansai Gakuin University, Japan
- Guest Reviewer in "Small Ruminant Research" (Elsevier)
- Editorial Board Member in the Journal *Bioetika*

2. Deepak Kumar Verma, Ph.D.

- Indian Institute Technology Kharagpur, India
- Guest Editor of Frontiers in Plant Science Journal - Frontiers Media S.A.
- Guest Editor of Frontiers in Nutrition Journal - Frontiers Media S.A.

Reviewers :

1. Prof. Parikesit M.Sc. Ph.D (Universitas Padjadjaran, Indonesia, Editor of Sustainability Science Journal-Springer)

- Biodiversity, Landscape ecology, Environmental biology, Bioresources management

2. Prof. Sunardi, M.Si., Ph.D (Universitas Padjadjaran, Indonesia)

- Energy management, Toxicology, Waste management, Sustainable industry

3. Dr. Susanti Withaningsih, M.Si (Universitas Padjadjaran, Indonesia)

- Biodiversity, Conservation biology, Environmental sustainability

4. Dr. Gemilang Lara Utama, M.I.L (Universitas Padjadjaran, Indonesia)

- Food science and technology, Waste management, Environmental studies, Natural resource management

5. Dika Supyandi, SP., MT., MDP (Universitas Padjadjaran, Indonesia)


- Human development theory, Economic sociology, Agricultural philosophy, Agribusiness

6. Deepak Kumar Verma, Ph.D. (Indian Institute Technology Kharagpur, India)

- Agricultural plant science, Food science, Biotechnology, Sustainable Agriculture



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