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The 3rd EMBRIO International Workshop on Marine Biodiversity: Understanding, Utilization, Conservation

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Enhancing Marine
Biodiversity Research
in **Ind**Onesia

THE 3rd EMBRIO INTERNATIONAL WORKSHOP on Marine Biodiversity: Understanding, Utilization and Conservation

IPB International Convention Center & IPB Science Techno Park, Bogor-Indonesia
October 9 -10 , 2018

PREFACE



We are grateful that we have presented, with great pleasure the **3rd EMBRIO International Workshop** (EIW). This international workshop was conducted to explore and develop marine biodiversity through research sharing in the form of presentation and coaching under the topic “Scientific Writing and Communication in Fisheries and Marine Science” in order to encourage the improvement of scientific works.

Bogor Agricultural University (IPB University) is a leading institution in the research programs to explore and develop marine biodiversity in Indonesia. One of the ways is through **EMBRIO** (Enhancing Marine Biodiversity in Indonesia). As one of leading institution in fisheries and marine research program in Indonesia, EMBRIO aim to increase collaboration among researchers from various institutions within the relatable fields in order to increase understanding, utilization, and conservation of marine biodiversity.

Thus, the 3rd EIW was held by EMBRIO team as a forum for researchers from all over the world to share their latest findings related to fisheries and marine biodiversity. The first International Workshop of EMBRIO was held in 2014 and second in 2016, which followed by several countries in Asia, Europe and Australia. We maintain the continuity of this activity, to build cooperation related to the development of marine biodiversity in Indonesia.

Kind regards,
Dr. Mala Nurilmala, S.Pi., M.Si.
Director of EMBRIO





Indonesia is well acknowledged as the largest archipelagic state which has area as more waters than its land. Its ocean area is estimated about two third of its total area. Consequently, Indonesia is endowed with large aquatic biodiversity including marine biodiversity. With those large marine biodiversity, Indonesia has some challenges not only to manage it as national ecological assets, so the country should pay more attention to secure the stocks and flows of marine biodiversity as part of national security, but also how to optimize the uses of those stocks and flows for the welfare of the nations.

To deal with the challenges, a knowledge based of the understanding, utilization and conservation of marine biodiversity should be developed. In this regards, the role of university such as IPB especially Faculty of Fisheries and Marine Sciences is more intensively needed. An inclusive partnerships in providing and investing the knowledge on marine biodiversity should be established at any levels, local to global. Answering this challenge, IPB has launched EMBRIO (Enhancing Marine Biodiversity Research in Indonesia) as a platform for research partnership both in vertical and horizontal way. EMBRIO is an inclusive partnership platform in providing and investing the knowledge on marine biodiversity should be established at any levels, local to global. Thus, vertical way stands for the structural level of knowledge, from basic to frontier/emerging sciences, and horizontal way is defined as the inclusiveness of the partnerships from communities, government, academia/research communities, civil society as well as business partners. Furthermore, EMBRIO has a challenges to contribute to the Sustainable Development Goals in general, especially SDG-14 (Life Below Waters) in particular.

In order to collect any ideas, knowledge, research findings among the stakeholders to be stipulated into policy actions, FPIK-IPB in collaboration with International Collaboration Office (ICO) IPB conducted the 3rd EMBRIO International Workshop (EIW). This workshop was held as the series of FPIK-IPB Dies Natalis celebration.

The 3rd EIW has produces a lot of ideas to strengthen the links between sciences and communication in the future, especially in the field of maintaining and managing our marine biodiversity as national assets for the sake of nation welfare.

Dr. Ir. Luky Adrianto, M.Sc.

Dean of Faculty of Fisheries and Marine Sciences

Bogor Agricultural University / Institut Pertanian Bogor (IPB University)

ABOUT EMBRIO

EMBRIO ('Enhancing Marine Biodiversity Research in IndOnesia') is a network initiative initiated by the Vice Rector for Research & Collaboration of the Bogor Agricultural University (IPB), Indonesia, to promote scientific innovation based on marine biodiversity resources and to strengthen counteractions against marine biodiversity loss. EMBRIO aims to grow into an Indonesia-wide network with strategic international partners and a 'Center of Excellence' in Indonesian Marine Biodiversity Research. The EMBRIO Initiative is coordinated by the IPB Faculty of Fisheries & Marine Sciences (IPB-FPIK).

The research seminar and coaching in the frame of the annual EMBRIO International Workshop is based on the EMBRIO Goals "Understanding, Protecting, Rehabilitating & Sustainable Use of Indonesian Marine Biodiversity". In October 2018, the 3rd EMBRIO International Workshop was conducted as an international seminar and coaching on the topic "Understanding, Utilization and Conservation". The coaching of this workshop provided a general introduction to Scientific Writing and Communication in Fisheries and Marine Science. The workshop participants hopefully gain the improvement of their scientific works. The immense value this biodiversity holds for biotechnological innovation is highlighted to create a fundamental understanding among the participants of the significance to sustain this treasure for future generations.

The international workshop was organized by EMBRIO Faculty of Fisheries and Marine Sciences Bogor Agricultural University (IPB-FPIK). It was held in close partnership with International Collaboration Office (ICO) of IPB.

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Photographs

Day 1: Scientific Presentation (9th, October 2018)



Day 2: Writing Workshop (10th, October 2018)



Keynote Speaker: Dr Davin HE Setiamarga Workshop Participants



Keynote Speaker: Dr Joana Dias



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