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Preface

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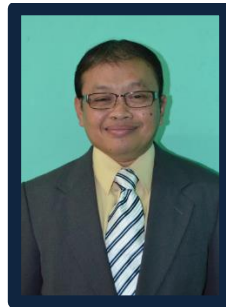
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PREFACE



The ecological intensified aquaculture relies on several practise and production processes which practices used for centuries in aquaculture. Millennium assessment and agroecosystem integration require new knowledge approaches. The major issues of our time, such as global warming and sustainable disease management, can also be studied through the prism of Ecological Intensification. The keys and solutions are multidisciplinary and the ECOAQUA conference “**Ecological Intensification: A New Paragon for Sustainable Aquaculture**” is tailored to help scientists and stakeholders to share about several thematic and innovations in this field.

The conference was attended by more than 130 participants from fifteen countries, namely Australia, Belgium, Cambodia, Chile, France, Indonesia, India, Madagascar, Malaysia, Netherlands, Oman, Philippines, Portugal, USA, and Vietnam. The Conference also has presented seven keynote presentations, three special presentations, forty-four oral presentations, and thirty-three poster presentations.

The ECOAQUA International Symposium hosted together by Research Institute for Freshwater Aquaculture and Fisheries Extension (RIFAFE) and Institut de Recherche pour le Développement (IRD). Supported by Republique Francaise, Centre de cooperation internationale en recherche agronomique pour le développement (CIRAD), Cooperation in Fisheries Aquaculture and Seafood Processing (COFASP), the Institute of Evolution Sciences of Montpellier (ISEM), Montpellier university of excellence (MUSE), and Investissements D’avenir.

Warm regards,

Dr. Ir. Tri Heru Prihadi, M.Sc
Chairman of The ECOAQUA Conference





The sustainable development of aquaculture requires in-depth knowledge of the genetic structure, life-history traits and adaptive capacities of the targeted fish species in relation to their environment. The enhancement of the production and propagation of local will be developed through the improvement of broodstock management and the optimization of fingerling production. On this basis, the definition of zootechnical and health management solutions should be thought out for local species and adapted to societal and environmental contexts. This includes participatory actions between scientists and farmers, and the promotion of rearing practices based on ecosystem functions and their biological regulation. Our objective is to develop a multidisciplinary research project to support the sustainable development (through the diversification) of inland aquaculture in Indonesia and more generally in South East Asia.

By 2030, it is estimated that aquaculture will supply more than 60% of consumption fish. However, sustainable development will be disrupted. Ecological intensification can be a rational alternative to increasing the production of aquaculture by optimizing ecological processes and ecosystems.

The Ministry of Marine Affairs and Fisheries (KKP) through the BRSDM KP Fisheries Research Center together with the Institut de Recherche pour le Développement (IRD) established a conference "Ecological intensification: a new paragon for sustainable aquaculture", which aims to strengthen international and regional scientific networks and visibility. In addition the implementation of this congress is a continuation of the multi-decade commitment of the IRD and Indonesian scientists in the field of aquaculture.

Prof. Ir. R. Sjarief Widjaja, Ph.D, FRINA
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Conference Day 1, 28th October 2019



Conference Day 2, 29th October 2019



Conference Day 3, 30th October 2019



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5	Michael A. Rimmer	Sunshine Coast Univ.	Australia
6	Patrick Sorgeloos	Ghent Univ.	Belgium
7	Roel H. Bosma	WUR	Netherlands
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