

## Preface

The role and significance of fisheries and marine research become more crucial in the future around the world as the ocean covers almost 2/3 of our planet and produces huge resources for human needs. Fisheries and marine resources have crucial roles in providing not only world energy, seafood productions, significance in climate change, marine aquaculture, but also in the world coastal socio-economic dynamics. Fisheries and marine resources serve as main income generating sector for people in coastal area of tropical countries especially in the archipelagic countries such as Indonesia. Department of Fisheries, Faculty of Agriculture, Universitas Gadjah Mada Indonesia organizes a symposium biannually, International Symposium on Marine and Fisheries Research (ISMFR). This symposium is a forum to be the primary focal assembly to share research outcomes and discussions on the role of fisheries and marine scientists in sustaining ocean ecosystems. This 2<sup>nd</sup> ISFMR was participated by more than 150 participants with a total of 106 presented papers. The symposium also invited the prominent scientists in fisheries and marine science mainly in the topics of marine sciences, fisheries management, aquaculture and fish processing technology. The symposium theme was “tropical marine and fisheries resources in a changing environment” covered broad topics in fisheries and marine science such as aquaculture, fish diseases, fish genetics, biotechnology, oceanography, seafood processing and safety, fisheries biology, climate science, marine ecotoxicology, fisheries management, marine natural product, and fisheries socio-economics.

This proceeding provides an opportunity for readers to engage with refereed papers presented on 24-25 July 2017 of the 2<sup>nd</sup> ISFMR. The papers published in this proceeding were selected from a total of 106 presented papers. This proceeding is divided into 5 sections, namely aquaculture, marine science, fisheries management and oceanography, fish processing technologies, and fisheries socio-economics. Therefore, in this proceeding, readers might discover the recent issue and results of research in the broad topics of fisheries and marine sciences.

We would like to deeply appreciate all of parties for the successful of the 2<sup>nd</sup> ISFMR. We deeply express our gratitude for organizing committee, keynote and invited speakers, reviewers, editors, and editing staffs for fully dedication, tireless efforts, and continuing hard work along the conference events and the process of this proceeding publication. We express special acknowledgement for Rector, Dean of Faculty of Agriculture, and Publication Agency of Universitas Gadjah Mada for their consistent and solid support for this conference. We also deeply appreciate all of participants and authors for the excellent participating and taking the best opportunity for disseminating, discussing and publishing the papers. A broad parties and large number of people have to be acknowledged for their crucial contribution for this successful ISFMR. Finally, we hope this proceeding provides the readers up to date and prominent information in fisheries and marine science from various points of view.

Chief Editor,

Dr. Alim Isnansetyo

