



# PROCEEDING

The 2<sup>nd</sup> International Seminar of Basic Science  
Natural Science For Exploration The Sea-Island Resources  
Ambon, May 31<sup>st</sup> 2016



Organized by  
Faculty of Mathematics and Natural Science  
Pattimura University



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The 2<sup>nd</sup> International Seminar of Basic Science

*“Natural Science for Exploration The Sea-Island Resources”*

Poka-Ambon, 31<sup>st</sup> May 2016

**Mathematic and Natural Science Faculty  
Universitas Pattimura  
Ambon  
2016**

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- Organizing Committee : PANITIA DIES NATALIES XVIII  
Fakultas Matematika dan Ilmu Pengetahuan Alam  
Universitas Pattimura
- Advisory : Prof . Dr. Pieter Kakisina, S.Pd., M.Si  
Scientific Comitte : Prof. Dr. Th. Pentury, M.Si (Matematika)  
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- Cover Design : Lexy Janzen Sinay, S.Si., M.Si  
V. Silahooy, S.Si., M.Si  
Idham Olong, S.Si

Mathematic and Natural Science Faculty  
Universitas Pattimura  
Ir. M. Putuhena St.  
Kampus Poka-Ambon  
Pos Code 97233  
Email:fmipa\_unpatti@gmail.com

2<sup>nd</sup> edition

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## **Welcoming Address By The Organizing Committee**

Today, We have to thank the The Almighty Allah SWT for the implementation of this international seminar. This is the second seminar about Basic Science in The Faculty of MIPA Pattimura University. The seminar under the title “Natural Sciences for Exploration the Sea-Island Resources” will be carried out on May 31<sup>st</sup> 2016 at Rectorate Building, Pattimura University. There are 200 participants from lecturers, research institute, students, and also there are 34 papers will be presented.

My special thanks refer to the rector of Pattimura University and the Dean of MIPA Faculty, Prof. Dr. Pieter Kakissina, S.Pd., M.Si. I also would like to express my deepest gratitude to Prof. Amanda Reichelt-Brushett, M.Sc., Ph.D. ; Kazuhiko Ishikawa, Ph.D. ; Nicolas Hubert, Ph.D. ; Prof. Dr. Kirbani Sri Brotopuspito ; Prof. Dr. Marjono, M.Phil. ; Gino V. Limon, M.Sc., Ph.D. as the keynote speakers.

The last, We hope this international seminar usefull for all of us, especially Mollucas People and very sorry if any mistake. Thank you very much.

**Dr. La Eddy, M.Si.**

Chairman of Organizing Committee

## **Opening Remarks By Dean of Mathematic and Natural Sciences Faculty**

I express my deepest gratitude to The Almighty God for every single blessing He provides us especially in the process of holding the seminar until publishing the proceeding of International Seminar in celebrating the 18<sup>th</sup> anniversary of MIPA Faculty, Pattimura University. The theme of the anniversary is under the title “Natural Sciences for Exploration the Sea-Island Resources”. The reason of choosing this theme is that Maluku is one of five areas in Techno Park Marine in Indonesia. Furthermore, it is expected that this development can be means where the process of innovation, it is the conversion of science and technology into economic value can be worthwhile for public welfare especially coastal communities.

Having the second big variety of biological resources in the world, Indonesia is rich of its marine flora and fauna. These potential resources can be treated as high value products that demand by international market. Basic science of MIPA plays important role in developing the management of sustainable marine biological resources.

The scientific articles in this proceeding are the results of research and they are analyzed scientifically. It is expected that this proceeding can be valuable information in terms of developing science and technology for public welfare, especially people in Maluku.

My special thanks refer to all researchers and reviewers for your brilliant ideas in completing and publishing this proceeding. I also would like to express my gratefulness to the dies committee-anniversary of MIPA Faculty for your creativity and hard working in finishing this proceeding, God Bless you all.

**Prof. Dr. Pieter Kakisina, S.Pd., M.Si.**

Dean of Mathematic and Natural Sciences Faculty

## **ACKNOWLEDGMENT**

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“The 2<sup>nd</sup> International Seminar of Basic Science 2016”

Hotel Mutiara Ambon

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