PEMAKALAH SEMINAR

SEMINAR INTERNASIONAL INTERNATIONAL CONFERENCE OF AQUACULTURE INDONESIA (ICAI)

Bali, 27-29 Oktober 2016

Dr. SUPONO, S.Pi., M.Si.

HALAMAN PENGESAHAN **PEMAKALAH**

1. Judul

Performances of white shrimp (Litopenaeus vannamei) cultured in low salinities combined with indigenous bacteria

2. Identitas Pemakalah

a. Nama Lengkap dan Gelar

: Dr. Supono, S.Pi. M.Si.

b.Jenis Kelamin

: Laki-Laki

c. Gol. Pangkat Dan NIP

: IIIC/ 197010022005011002

d. Jabatan Fungsional

: Lektor

e. Fakultas/PS

: Pertanian/Budidaya Perairan

3. Kegiatan

: International Conference of Aquaculture Indonesia

(ICAI) 2016

4. Bentuk Publikasi

: Pemakalah

5. Tempat

: Bali, Indonesia

6. Tanggal

: 27-29 Oktober 2016

7. Penyelenggara

: Masyarakat Akuakultur Indonesia (MAI)

Bandar Lampung, 22 November 2017 Pemakalah,

Mengetahui, Wakil Dekan I Fakultas Pertanian

Prof. Dr. Ir Der niyati, M.Agr. Sc. NIP 196308041987032002

Allen

Dr. Supono, S.Pi.. M.Si NIP 197010022005011002

Menyetujui,

Ketua Lembaga Penelitian Universitas Lampung

PADA HAS Warsono, Ph.D.

NIP 196302161987031003

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INDONESIAN AQUACULTURE 2016

International Conference of Aquaculture Indonesia October 28-29, 2016 Bali, Indonesia



Certificate of Participation

Supono Agus Setyawan, Esti Harpeni

For Oral Presentation of

PERFORMANCES OF WHITE SHRIMP (Litopenaeus vannamei) CULTURED IN LOW SALINITIES COMBINED WITH INDIGENOUS BACTERIA

Prof. Rokhmin Dahuri Steering Committee Chair International Conference of Aquaculture Indonesia 2016

Performances of white shrimp (Litopenaeus vannamei) cultured in low salinities combined with indigenous bacteria

SUPONO AGUS SETYAWAN ESTI HARPENI

LAMPUNG UNIVERSITY

INTRODUCTION

- White shrimp (Litopenaeus vannamei) farming in Indonesia has developed and reached good result
- White shrimp has been capable to increase pond productivity from 5-6 tons/ha/cycle to 10-20 tons/ha/cycle.
- Due to high density (up to 100 pcs/m³) and survival rate (up to 90%)

- In some areas in Indonesia (ex.: Lampung Province) recently farmers are facing some problems in growing up vannamei due to disease attack, mostly viral disease
- Shrimp culture activity cause environmental problems (organic waste, mangrove destruction)

- Solutions
 - Inland water shrimp farming
 - · Vannamei : euryhaline
 - · Suppress pathogen: virus, bacteria
 - Indigeneous microorganism
 - More tolerant
 - Two indigeneous bacteria have been isolated from the shrimp pond in East Lampung Distric
 - Bacillus polymyxa
 - Bacillus coagulan

The aims of the research

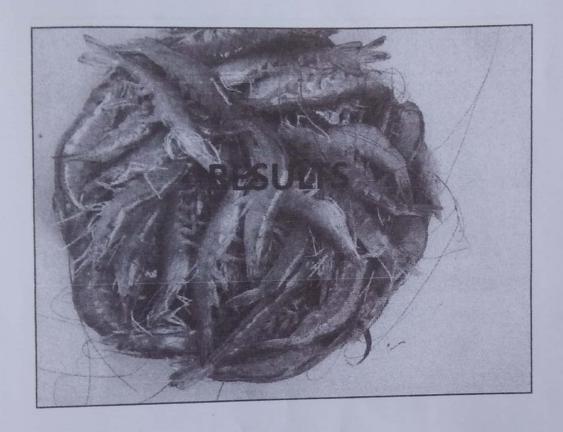
- To study performance of white shrimp (L. Vannamei) cultured at low salinity
- To study performance of white shrimp (L.
 Vannamei) cultured at small scale container
- To studi the effect of the use of indigeneous bacteria on performance of L. vannamei

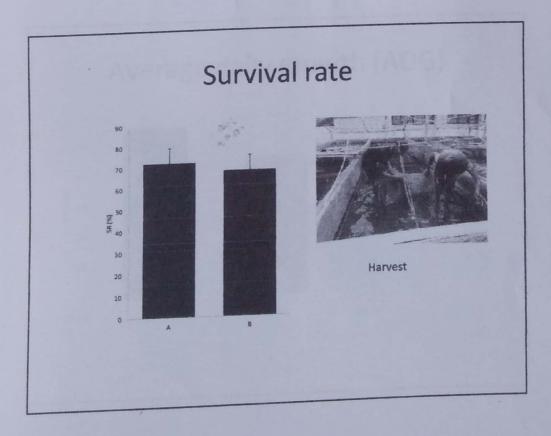
Methods

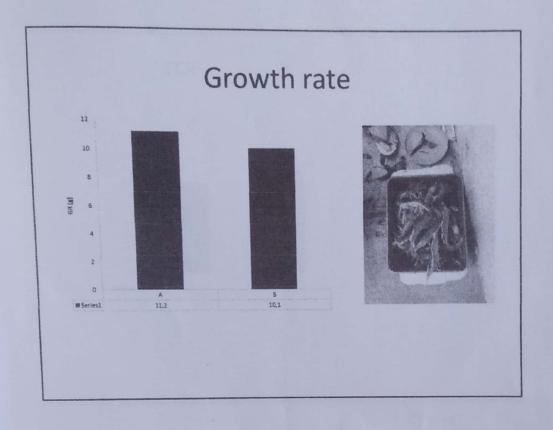
- Research design
 - Consist of two treaments
 - Treatment A: Using bacteria (B. Polymyxa, B. Coagulan)
 - Treatment B: Without bacteria
 - 3 replicates

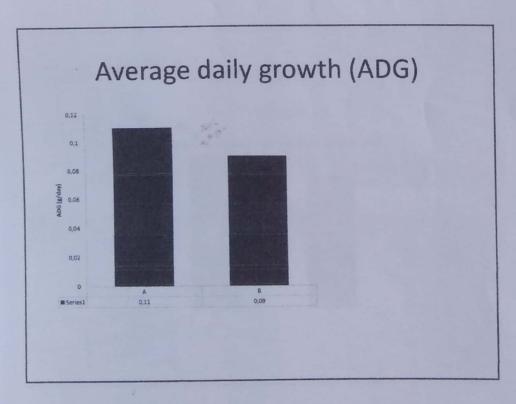
- Dimension of pond: 4m x 2m x 0,7m
- Water volume: 4 m³
- Water height: 0.5 m
- Density: 600 Pls/pond (150 Pls/m³)
- PL age: 10

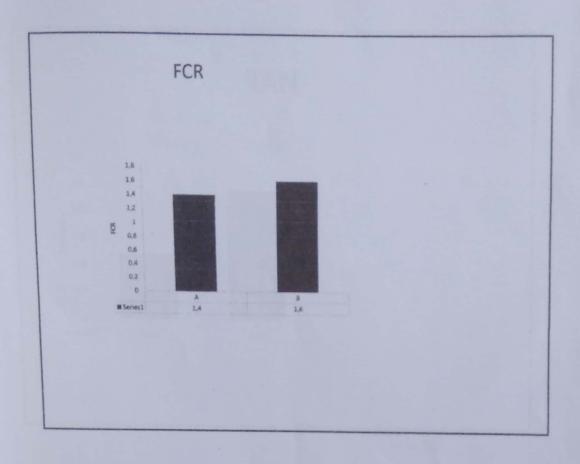
- Water salinity: 5 ppt
- Shrimp was cultured in lined pond for 60 days
- Treatment A: adding bacteria 10⁶ CFU/unit weekly

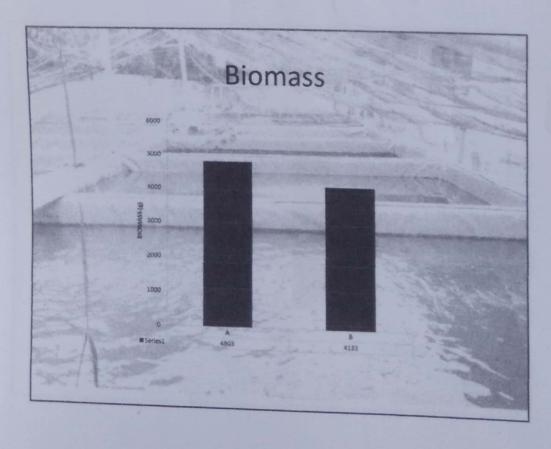


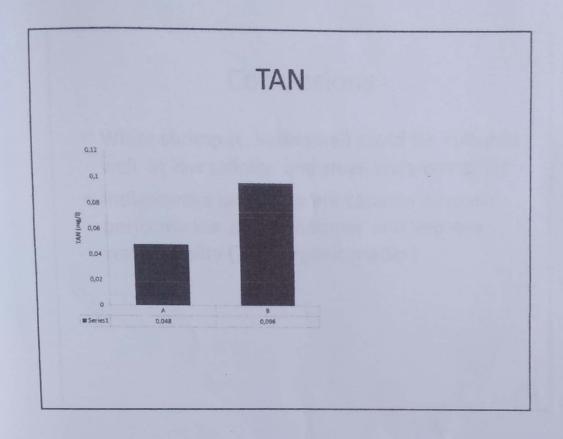


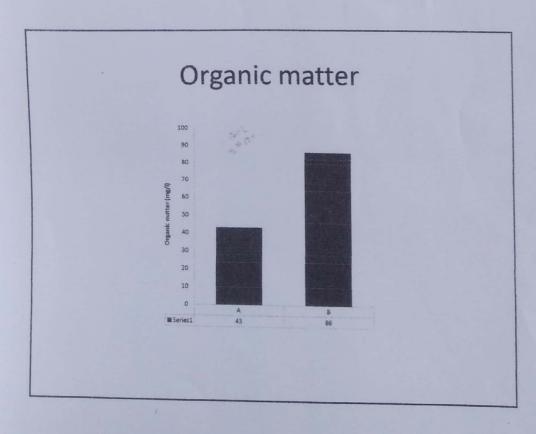












Conclusions

- White shrimp (L. Vannamei) could be cultured well at low salinity and small scale container
- Indigeneous bacteria were capable increase performance of L. Vannamei and improve water quality (TAN, organic matter)

ICAI 2016 ABSTRACT ACCEPTANCE (Fix)

People
mai icai <icai.aquaculture@gmail.com>
To
supono_unila@yahoo.com
Aug 24 at 1:30 PM

Dear Mr. Supono

Lampung University

We are writing here to inform you that your abstract "PERFORMANCES OF WHITE SHRIMP (Litopenaeus vannamei) CULTURED IN LOW SALINITIES COMBINED WITH INDIGENOUS

BACTERIA" We would also appreciate if you could arrange to send the fullpaper of your presentation to be made at ICAI 2016 before September 10, to complete the registration, please make the payment and then send proof of payment to us through this email or website. Format abstract should be added images or tables, Is there any images or tables or graphs that can be inserted your abstract? (whole abstract follow our template). please revise your abstract if possible

please can transmit personal data as first author such attached example. name written according to the birth certificate as the education certificate, plus education degree, please also included a photo size 3x4 or 4x6.(doc format)

This personal data is used for the manufacture of a certificate (the author's name) and also to appear in the ICAI 2016 guidebook.

We are offering a special price if you register and pay before September 1, 2016 How to do the payment?

By Bank Transfer (Indonesian participants). Transfer your registration payment + transfer fee to Account: DEWI SUNARNINGSIH Bank BCA, KCP Siliwangi—Semarang, Indonesia, Acc/no. 246-532-973 2 Swift Code: CENAIDJA. Your payment proof can be sent to the Conference Manager's office by fax (+62 24-8318908) or by email to: (icai aquaculture@gmail.com) or (aquacultureindonesia@gmail.com)

We hope to meet you in Bali. Thank you.

With best regards

Mufid

ICAI 2016 Committee

PROGRAM OF ICAI 2016

THURSDA	Y, OCTOBER 27		
13:00 - 20:0	Registration Open & Exhibit Set-up Submission of files for oral presentations, Poster Set-up, Check I		
18:00 - 21:0	O Annual Meeting of Indonesian Aquaculture Society Board & Me	mber	
FRIDAY, O	CTOBER 28		
07:00 - 12:0	0 Registration Open		
08:00 - 09:0	O Lecture: Prof. Sharr Azni Harmin, Ph.D (University of Selangor, MALAYSIA) REPRODUCTIVE DEVELOPMENT IN FINFISH AQUACULTURE: CURRENT STATE AND RECENT PROSPECTIVES		
09:00 - 09:10	Nation Song: Indonesia Raya		
09:10 -09:30	a Warrate Speech :		
09:30 - 09:45	Welcome Balines Dance		
09:45 - 10:00	Planary Session 1	08:30 - 17:30	
	INDONESIA) PROBLEM SOLVING DEVELOPMENT IN FINFISH AQUACULTURE DISEASE: CURRENT STATE AND RECENT PROSPECTIVES	Exhibition Open	
	Prof. Ravi Fotedar, Ph.D (Curtin Univ. of Tech., Western AUSTRALIA) AQUACULTURE INDUSTRY DEVELOPMENT IN AUSTRALIA: CURRENT STATUS AND RECENT PROSPECTIVES		
1:20 - 11:40	Discussion (Moderator: Agung Sudaryono, Ph.D) Discussion (Moderator: Agung Sudaryono, Ph.D) (Provided) (Poster Presenter		
1:30 – 13:00	Friday Prayer & Lunch (Provided) (1 ster 2 session)		
	 Parallel Class Session I Aquaculture Management and Technology Aquaculture Disease and Environment Genetic and Breeding Aquaculture Feed and Nutrition Social, Economy & Business (Marineculture Group) 		
	Coffee Break II (Provided) (Poster Presenter Session)		
	Parallel Class Session II		

	Aquaculture Disease and Environment Genetic and Breeding Aquaculture Feed and Nutrition Social, Economy & Business (Marineculture Group)	08:30 – 17:30 Exhibition Open
19:00 – 21:00	President's Reception/Gala Dinner	
SATURDAY, C	OCTOBER 29	
07:00 - 10:00	Registration Open	
08:00 - 10:00	 Parallel Class Session III Aquaculture Management and Technology Aquaculture Disease and Environment Aquaculture Feed and Nutrition Social, Economy & Business (Marineculture Group) 	
10:00 - 10:15	Morning Coffee Break	
10:15 – 12:15	 Parallel Class Session IV Aquaculture Management and Technology Aquaculture Disease and Environment Aquaculture Feed and Nutrition Social, Economy & Business (Marineculture Group) 	08:30 -
12:15 – 13:15	Lunch II (Provided) (Poster Presenter Session) Plenary Session 2	17:30 Exhibition Open
13:15 – 14:00	Prof. Rokhmin Dahuri (President Indonesian Aquaculture Society) AQUACULTURE INDUSTRY DEVELOPMENT IN INDONESIA: CURRENT STATUS AND RECENT PROSPECTIVES	Open
14:00 – 14:45	Prof. Shunsuke Koshio (Kagoshima University, JAPAN) FEED AND NUTRITION INNOVATION DEVELOPMENT IN FINFISH AQUACULTURE: CURRENT STATES AND RECENT PROSPECTIVES	
14:45 – 15:30	Dr. Nyan Taw (FAO Projects Consultant in Vietnam & Saudi, MYANMAR) BIOFLOC TECHNOLOGY APPLICATION FOR PROFITABLE AND SUSTAINABLE SHRIMP FARMING: WITH RECENT INFORMATION	
15:30 - 16:15	Plenary Discussion (Moderator: Prof. Muchlisin)	
16:15 – 16:30	Closing Remark: President MAI (Prof. Rokhmin Dahuri)	
16:30 - 17:00	Refreshment (Coffee Break)	
SUNDAY, O	CTOBER 30	
08:00 - 16:00	Two Days Aquaculture & Nature Tour in Singaraja Bali (Op Program)	tional

Aquaculture Management and Technology

- 15:50 **Murwantoko**, Alim Isnansetyo, Desy Putri Handayani, Kazuya Nagasawa Temnosewellia sp. CAUSED MORTALITY ON GIANT FRESHWATER PRAWN Macrobrachium rossenbergii DE MAN CULTURED ON RICE-SHRIMP CULTURE SYSTEM (30 mins)
- 16:20 Muhamad Amin, C. Bolch, M. Adams, C. Burke ISOLATION AND SCREENING OF ENZYME-PRODUCING BACTERIA FROM GASTROINTESTINAL TRACT OF HYBRID ABALONE (Haliotis laevigata x H. rubra) AS PROBIONT CANDIDATES (30 mins)
- 16:50 **Supono,** Agus Setyawan, Esti Harpeni
 PERFORMANCES OF WHITE SHRIMP (*Litopenaeus vannamei*)
 CULTURED IN LOW SALINITIES COMBINED WITH INDIGENOUS
 BACTERIA (30 mins)

AQUACULTURE MANAGEMENT & TECHNOLOGY

Friday, October 28 13:00-15:00 Ballroom 2 Room

Session Chair Suadi

- 13:00 Novi Arisman, T. Yoshimatsu
 TEMPORAL CHANGE OF SALINITY STRESS IN MANILA CLAM
 Ruditapes philippinarum: IMPLICATION FOR BIODEFENSE
 MECHANISM IN RESPONSE TO CLIMATE CHANGE (20 mins)
- 13:20 **Ma'ruf Kasim,** Ahmad Mustafa, Muzuni, Wardha Jalil GROWTH OF *Kappaphycus alvarezii* AND *Eucheuma denticulatum* CULTIVATED IN FLOATING CAGES (20 mins)
- 13:40 **Djumanto,** Ustadi, Rustadi and Bambang Triyatmo
 FEASIBILITY STUDY OF THE SUSTAINABLE AQUACULTURE OF
 VANAMEI SHRIMP IN KEBURUHAN COAST PURWOREJO SUBDISTRICT (20 mins)
- 14:00 Mirna Fitrani, Marsi, Robiyanto H Susanto and Santa Dewi THE EFFECT OF LIQUID ORGANIC FERTILIZER APPLICATION ON WATER QUALITY OF RECLAIMED TIDAL LOWLAND FISH PONDS (20 mins)
- 14:20 Ratih Ida Adharini, J. Kim, H.G. Kim SEEDLING TECHNIQUE BY CRUSTS FROM SPORES AND FILAMENTS ON *Grateloupia asiatica* (RHODOPHYCEAE) (20 mins)
- 14:40 **Jacqueline M.F Sahetapy,** Daniel G. Louhenapessy and Elna C. Riry THE IMPACT OF COMPONENTS MODIFICATION RECIRCULATION SYSTEM "DOUBLE BOTTOM FILTER" TO AMMONIA IN CULTURE