CURRICULUM VITAE

Dr. Ir. BAMBANG WIDIGDO

DEPARTMENT OF AQUATIC RESOURCES MANAGEMENT
IPB UNIVERSITY
2019

CURRICULUM VITAE
(Resume)

Dr. Bambang Widigdo is an Associate Professor at Faculty of Fisheries and Marine Sciences, IPB University, Indonesia. He has obtained Engineer (Bachelor) Degree in Aquaculture from Faculty of Fisheries, IPB University, Indonesia in 1980 and Ph.D in Biological Sciences from Ludwig Maximillians University, Munich, Germany in 1988. Soon after his returned from Germany in 1988 he held a research aiming to develop shrimp aquaculture technology on sandy area. This breakthrough technology was successfully commercialized in 1992, honored a paten from Ministry of Low and Human Right of Indonesian in 2003, and has national wide being implemented by several shrimp companies since 2000. He has been then doing several applicative research works focusing on sustainable shrimp farming. In 1996-2000 he has successfully improve the productivity of a 500 ha integrated shrimp farm project belong to government in Karawang, West Java. In 1998-2000 he has successfully developed and managed a 1,000 ha integrated shrimp farm in Seram Inlands, East-Indonesia, a joint venture project belongs to PT. Djajanti Group-Indonesia and Nippon Suisan - Japan. In 2003 – 2012 he was a Vice President for Integrated Quality Assurance in PT. Cental Proteina Prima -Charoen Pokphand Group Indonesia (an integrated shrimp industry, in Lampung – South Sumatra, Indonesia). His main tasks were among others to develop HACCP based Standard Operation Procedure (SOP) for Hatchery, Farm and Processing Plant, to full fill the international requirement for production sustainability, quality as well as food safety. His highest position in governmental institution was a Rector at a State University, Borneo University of Tarakan (UBT), North Kalimantan 2013 – 2017. His main task was to lead the changes from private university management to governmental university management.

CURRICULUM VITAE

Name	:	**Bambang Widigdo**
Place and date of Birth	:	Ngawi, August 9, 1956
Marital Status	:	Married
Religion	:	Islam
Address	:	Kampus IPB, Darmaga, Bogor 16680, West Java, Indonesia, Phone: +62-8127201451
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I. EDUCATIONAL BACKGROUND

Year of Graduation	Degree	University/ College / Institute	Study Program
1980	Bachelor	IPB University, Indonesia	Aquaculture
1988	Doctor	Ludwig Maximillians University, Munich, Germany	Biology Sciences

II. LANGUAGE COMPETENCE

Language	Skills	Active/ Passive
English	Oral and written	Active
German	Oral and written	pasive

III. HISTORY OF POSITIONS IN UNIVERSITY

Year	Position	Institution
2013 – 2017	R e c t o r	Borneo University of Tarakan (UBT), North Kalimantan. Department of Research Technology and Higher Education, Indonesia
2001-2005	Departments Head	Department of Aquatic Resources Management, Faculty of Fisheries and Marine Sciences, IPB University.

IV. PROFESSIONAL POSITION AND ACIEVEMENTS

No	Items	Remarks/Note
1	Year	2003 – 2012
	Name of Company	**PT. Central Proteinaprima (CPP) - Charoen Pokphand Group Indonesia**
	Description of Company	PT. CPP is an integrated shrimp industry with the system of nucleus-plasma. The company is established in 1996 with total employees of more than 10,000 people. The company runs an integration production system throughout hatchery, farming, processing plant, and feed mills. The hatchery's production capacity reached 1.5 billion fry per year, supplying 3,500 shrimp ponds (0.5 ha each), from which the shrimp production is processed in its own processing plant which is operated by more than 3,000 personnel (operators, technicians, supervisors, managers, to general managers).
	Position	Vice President ***Integrated Quality Assurance***
	Tasks and Responsibilities	• To develop and implement HACCP based Standard Operation Procedure (SOP) for hatchery, farm and processing plant. • To harmonize the SOPs with international standard as stated in the Good Aquaculture Practices (GAP) both US standard (GAA-ACC), EU standard (Global GAP) as well as Shrimp Aquaculture Stewardship Council. • To develop a control system with which implementation all of the SOPs are controlled to meet the standard. • To improve technical competence and/ or skills of all shrimp farming technicians through trainings, discussions, and seminars, so that the production can run sustainably.
	Achievements	• Through implementation of HACCP based SOP in hatchery, farm and processing plant, the production has increased steadily from 12,000 tons in 2012 to 18,500 tons in 2003 and reaching it maximum yearly production 60,000 tons in 2008. • The company received its first international certification body (ACC) in 2006, GlobalGAP in 2008, ASC in 2014. • All products were exported mainly to US, Europe, and Japan.

2	**Year**	**2000 - 2003**
	Name of Company	**PT. Charoen Pokphand Indonesia, Jakarta**
	Position	**Consultant for technical services**
	Tasks and Responsibilities	Technical training for marketing team
3	**Year**	**1998 – 2000**
	Name of Company	PT Djajanti Group Indonesia in cooperation with Nippon Suisan Japan
	Position	Aquaculturis expert
	Tasks and Responsibilities	• Site selection, develop a design and lay out of a 1,000 ha shrimp pond on sandy area. • Supervising the ponds construction • To run *P. monodon* culture at least 2 cycles
	Achievements	The project was successfully ended in 2000, in which the shrimp production reached to 6 – 7 ton/ha/cycle
4	**Year**	**1996 – 2000**
	Name of Company	PT. Pangan Sari Utama
	Position	Aquaculturist
	Tasks and Responsibilities	To improve technical management in a 500 ha integrated shrimp farm belong to Government.
	Achievements	• Technical capability of the productions staff have improved • Production performance have increases from 200-300 kg/0.5 ha up to 3-4 ton/ha.
5	**Year**	**1988 – 2000**
	Position	Aquaculturist
	Tasks and Responsibilities	To develop insights in developing shrimp ponds on sandy areas, in Citarate village, Sukabumi Regency, West Java. The main goal of the research project was to find out shrimp pond technology on sandy area to save mangrove for further conversion in to shrimp pond.
	Achievement	Shrimp pond technology on sandy ground has been established in 1992 and in 2003 received a Patent honor from the Ministry of Law and Human Right of Indonesia National wide is recognized as “BIOCRETE®”

V. PROFESSIONAL TRAINING

Year	Training	By	Time / Period
2011	Seafood HACCP Training Workshop, Based on HACCP Alliance Course Material, Seattle US	NSF Surefish, Seatle WA, US	6 – 7 June
2011	Best Aquaculture Practices (BAP) Course for Processing Plants, Farms, Hatcheries and Feed Mills	Aquaculture Certification Council, US	7 days
2005	ACC Auditor Workshop, Surabaya	Surefish, Independent Inspection	2 weeks
2005	Certified Training on Best Practices for Responsible Aquaculture, Surabaya	Aquaculture Certification Council (ACC) US	2 weeks

VI. PATENT ORIENTED RESEARCH AND ITS COMMERCIALIZATION

I t e m s	**R e m a r k s/N o t e s**	
Research Title	**Developing BIOCRETE Technology for Shrimp Ponds in Sandy Areas**	
Position	Chairman	
Time of Research	1988 – 1992	
Source of Funds	1.	Applied Aricultural research Project – Directorate General of Fisheries (US and Indonesia joint Project)
	2.	TSI bv.II, The Netherland (Private company)
	3.	FMO, The Netherland (Financial company for green project)
Given by	Government of the Kingdom of the Netherlands (Koninkrijk der Nederlanden)	
Number of Patent	1006648	
Date	23-Jul-99	
Title of Patent	**Kweekvijver en Werkwijze voor Aanleggern Hiervan**	

On Behalf of	Karel Hermanus Stroethof, with additional letter on behalf of **DR. Ir. Bambang Widigdo**	
Given by	Directorate General of Intellectual Property Rights, Patents Directorate, Department of Law and Human Rights	
Number of Patent	ID 0 009 839	
Date	10-Feb-03	
Title of Patent	**Culture Ponds with Water Media and the Methods to Build Them**	
On Behalf of	**Dr. Ir. Bambang Widigdo**	
Institutions/ Companies Implementing the Technology	1.	Marine Aquaculture Center, Ministry of Maritime Affairs and Fisheries, Pecaron, Situbondo, 1996
	2.	Agency for the Assessment and Application of Technology, Kulon Progo 1997/1998
	3.	PT. Wana Eka Asri, Djajanti Group, Seram, Maluku, 1997/1999.
	4.	PT. Triasta Citarate, Cianjur, 2000
	5.	PT. Bimasena, Sukabumi, 2000
	6.	PT. Indocore, Bantul, Jogjakarta, 1999

VII. Researches on Water/ Fishery Studies

Year	Research Title	Principal/ Member	Source of Funds
2016-2017	The variation of major ion properties in brackish water ponds and its correlation with Pacific white shrimp *L. vannamei* production performance	Principal	Private Company
2006/2008	Transmission Capacity on WSSV of Infected White Shrimp (Dead-Fresh, Dead Rotten and Dried) to Healthy Shrimp	Principal	Private Company
2005/2006	Observation on the Presentation of White Spot Virus (WSSV) on Benthic Organism of Shrimp Ponds (L.Vannamei)	Principal	Private Company

2004/2005	Implementation of TRACEABILITY in a Large Scale Shrimp Industry	Principal	Private Company
2004/2005	Implementation of BIOSECURITY in a Large Scale Shrimp Industry	Principal	Private Company

VIII. PROFESSIONAL ORGANIZATION MEMBERSHIP

Year	Organization	Position
2003- Present	Shrimp Club Indonesia	Member
2004- 2007	World Aquaculture Society	Member
2005- 2012	Aquaculture Certification Council	Auditor
2003- 2011	Indonesian Shrimp Commission (KUI)	Vice Chairman
2011-Present	Indonesian Shrimp Commission (KUI)	Chairman

IX. CONFERENCES/SEMINARS/WORKSHOPS/SYMPOSIUMS

Year	Theme of Activity	Organizer	Role
2017	International Conference of Aquaculture Indonesia, October 27-28, 2017, Solo	Indonesia Aquaculture Society	Session Chair
2017	International Conference of Aquaculture Indonesia, October 27-28, 2017, Solo	Indonesia Aquaculture Society	Speaker
2016	Idonesia Conference of Aquaculture 2016, Surabaya	Masyarakat Aquaculture Indonesia	Speaker

2011	Reason Information on Shrimp Diseases	Directorate General of Fishery and Culture, Shrimp Club Indonesia, and Global Gen Indonesia	Participant
2011	Coordination Meeting of Indonesian Shrimp Commission 1	Directorate General of Promotion and Marketing of Fishery products (P2HP), Ministry of Maritime Affairs and Fisheries	Organizer and Moderator
2011	Coordination Meeting of Indonesian Shrimp Commission 2	Directorate General of Promotion and Marketing of Fishery products (P2HP), Ministry of Maritime Affairs and Fisheries	Organizer and Moderator
2010	Fishery and Environment Health Management Forum, "Toward the National Implementation of Split System and Traceability to Residue Control on Aquaculture Fishery Products", Jakarta	Directorate General of Aquaculture and Fishery, Ministry of Maritime Affairs and Fisheries	Speaker
2009	National Working Meeting 2009, ”Together Advancing Indonesian Aquaculture”, Serpong	Directorate General of Aquaculture and Fishery, Ministry of Maritime Affairs and Fisheries	Speaker
2009	The 1st Regional Expert Group Meeting of ASEAN Shrimp Alliance, Thailand	Dept. of Fisheries Thailand	Speaker
2008	World Aquaculture Society Seminar Asia-Pacific Session, Seoul-Korea	World Aquaculture Society	Participant
2008	General Studium. Theme: ***Quality in Coastal Aquaculture Ponds*** *(Basic Water Quality and Related Environmental Issues, and some Comments on Aquaculture BMPs and Certification*) by Prof.Dr. Claude E. Boyd. Bogor	Faculty of Fisheries and Marine Studies-IPB	Organizer and Moderator

2007	Learning and Exchange on Engagement with the Tropical Shrimp Industry Sector (Sanur – Bali)	Southeast Asia Fish for Justice Network (Sea fish)	Speaker

X. SCIENTIFIC WORKS AND PUBLICATIONS

Year	Title	Publisher/Journal/Report
2019	**Bambang** Widigdo, Wiyoto, Julie Ekasari Alim Isnansetyo 2019 ; Correlation of Major Mineral Properties in Brackish Water Ponds Environment and Pacific White Shrimp Litopenaues vannamei Survival, Growth and Production	Journal of Environmental Science and Technology 2019
2019	Zairion1, Agus Alim Hakim, Ali Mashar , Achmad Fahrudin, **Bambang** Widigdo Yusli Wardiatno.2019; New record of Pseudoporcellanella manoliensis Sankarankutty, 1961 (Crustacea: Decapoda: Porcellanidae) from Indonesian waters	Natura Croatica 2019
2018	Zairion, AA Hakim, A Mashar, A Fahrudin, L Adrianto, **B Widigdo**, Y Wardiatno 2018; Diversity and distribution of Dorippid Crabs (Brachyura: Dorippidae) in East Coast of Lampung, Indonesia	IOP Conference Series: Earth and Environmental Science 2018
2018	Agus Dwiono, Bambang Widigdo, Kadarwan Soewardi 2018; Pengaruh Komposisi Mineral Air Tanah Terhadap Fisiologi Dan Histologi Udang Vaname Litopenaeus Vannamei 2	Jurnal Ilmu dan Teknologi Kelautan Tropis 2018
2017	Sigid Hariyadi, Akrom Muflih, Ali Mashar, **Bambang Widigdo,** Yusli WardiatnoSpatial distribution of some heavy metals in the sediments of Tangerang coastal waters, Banten Province, Indonesia.	Advance in Environmental Sciences (AES Bioflux 2017)

2017	**B.Widigdo,** Rukisah, Asbar Laga, Agus A Hakim, Yusli Wardianto. 2017. Carapace length-weight and width-weight relationship of Scyla cerrata in Bulungan Distrcit, North Kalimantan, Indonesia	BIODIVERSITAS DOI: 10.13057/biodiv/d1804xx
2017	Y. Wardianto, Y Qonita, Mursalin, R Zuimi, H Effendi, M Krissanti, A Mashar, S Haryadi, AA Hakim, A Sahidin, **B Widigdo**, S Nursiyamah. 2017. Determining ecological status of two Coastal waters in Western Java Using macrozoobenthic community: A comparation between North Part and South Part	IOP Science IOP Conf. Series: Earth and environmental Science 54 (2017)Doi:10.1088/1755-1315/54/1/012071,
2016	Widigdo, B. Treatmen of Shrimp Farm Source Water to Eliminate Crustacea Vector of viral Diseases with Dichlorvos	World Aquaculture society (Abstract) Asian-Pacific Aquaculture 2016 Surabaya, Indonesia
2011	Country Information of Indonesia, IMNV Outbreak in Indonesia.	Proceeding, The3rd China International Shrimp Industry Development Forum, Zhanjiang, China: 24 – 29
2008	Bio ecology of Rotifer from Coastal and Estuary, North Sulawesi	Post-Graduate Forum, Bogor: Vol. 31, No.1: 59-68
2007	Model of Carrying Capacity Based Environment Quality Management on Gulf Waters for the Development of Floating Net Cage Culture (KJA) of Grouper Fish (*Cromileptes altivelis*)	Fishery Research Journal, Malang: vol. 10. No. 1,:15-21
2007	Distribution s of Monogonont Rotifers, Brachionus spp. in North Sulawesi	Marine Research in Indonesia. Bogor: Vol. 32, No. 2: 103-108
2007	Suggestionsfrom Prof.Dr. Timothy and Dr. Chalor Limsuwan on Their Visit to CP Bahari	CP Bahari Magazine
2007	Cattle Ranchers in Denmark have implemented traceability. How about us?	Internal Magazine CP Bahari, Edition: XII, Number I/2007, pp. 58-60

2007	Productivity of Diatom Perifitic grown on Different Types of Subtracts as an Alternative of Natural Shrimp Feed Supply	Indonesian Biology Journal, Bogor Vol. IV, No. 3:177-191
2005	**Study Book: Water Invertebrates Edition 1 and 2**	PT. Penebar Swadaya
2005	**Widigdo. B.,** J. Pribadi. Biosecurity as a Management Tool to Control Viral Diseases and to Improve Production in Shrimp Industry	Proceeding, World Aquaculture Society (WAS) Congress/Seminar, Bali
2000	**Widigdo, B**. 2000. Standardization of Criteria Needed for Eco-Biology to Determine "Natural Potential" in Coastal Areas for Shrimp Culture	The Paper was presented on Training for Trainers of Integrated Coastal Area management, Bogor: 21-26 February 2000. A collaboration between Coastal Project and PKSPL – IPB
1999	**Widigdo, B**., K. Soewardi, 1999. Feasibility of Pond Area in Guidance Project TIR-Karawang for Tiger Shrimp Culture: In Its Relation to Levels of Heavy Metals and Pesticides	Journal of Coastal & Ocean PKSPL – IPB: Vol. 2. No.3
1999	**Widigdo, B**., K. Soewardi. 1999. Standard Operation Procedure (SOP) of Tiger Shrimp Culture in Guidance Project TIR (PPTIR) Karawang	The Paper was presented on the Discussion on the Pond Setup with Environmental Insight, Directorate of Production Guidance, Directorate General of Fishery, 1-4 November 1999. Yogyakarta.
1999	**Widigdo,B.** 1999. Application of Re-circulation System for Shrimp Culture	The Paper was presented on a one-day seminar: A Review on the Policy of Shrimp Farming in Indonesia, a cooperation of PKSPL – IPB and WALHI, Jakarta, 20 December 1999
1999	**Widigdo, B.**, K. Soewardi. 1999. Management of Guidance Project of Pond Nucleus (PPTIR) Karawang – West Java. BOOK I: Production of Tiger Shrimp, Period 1997 – 1998.	Report on Cooperation Project between Faculty of Fishery IPB and PT Pangansari Utama
1999	Widigdo, B., K. Soewardi. 1999. Management of Guidance Project of Pond Nucleus (PPTIR) Karawang – West Java. BOOK II: Production of Tiger Shrimp, Period 1998-1999.	Report on Cooperation Project between Faculty of Fishery IPB and PT Pangansari Utama

1999	**Widigdo, B**., K. Soewardi. 1999. Management of Guidance Project of Pond Nucleus (PPTIR) Karawang – West Java. BOOK III: Production of Tiger Shrimp, Period 1998-1999.	Report on Cooperation Project between Faculty of Fishery IPB and PT Pangansari Utama
1997	Widigdo, B. 1997. Sustainable Shrimp Culture Using Biocrete.	Proceeding IAMA International Congress on New Technology for Agriculture. Jakarta, 23 Jun 1997
1996	**Widigdo, B**., Kardio, K.P. 1996. Biocrete System Supporting Environmental Friendly Shrimp Farming Business	Journal of Indonesian Waters and Fishery Studies (1996), IV(I):93-104.
Year	**Title**	**Publisher/Journal/Report**
1996	**Widigdo, B**. 1996. Growth of Production and Sustainability of Tiger Shrimp Cultured in Sandy Ponds (Biocrete Technology)	Journal of Indonesian Waters and Fishery Studies (1996), IV(2): 35-39.
1994	**Widigdo, B.,** Stroethoff, K.H. Haryadi, S. 1994. Utilization of Sandy Ground for Raising Tiger Shrimp. (*Penaeus monodon*). Chou.L.M. et al. (editors). The Third Asian Fisheries Forum.	Asian Fisheries Society, Manila, Philippines: 1006 – 1009.
1994	**Widigdo, B**., 1994. Tracing the Benefits of Sandy Ground for Tiger Shrimp Ponds (*Pennaeus monodon*).	The paper was presented on the Training of Hatchery and Shrimp Pond Management, 28 May 1994 at DPRD Building, Plaza, City Hall, Bogor.
1993	Widjaja, F., **Widigdo, B**., Basmi, J. 1993 Irenesanti, D., . Microalgae *Chlorella* sp. as Waste Water Biofilter	Seminar on Microalgae, 10 – 12 February 1993. LNB, Bogor
1993	**Widigdo, B**., Stroethoff, K.H. 1993. Building Ponds on Sandy Ground	Techner No. 08. July 1993
1991	Afandi, R., Retno, D. W., Sumawidjaja, K., **Widigdo, B**. 1991. Development of Digestive Tool Structure of Betutu Larvae (*Oxyelotris Marmorata* Blkr.)	National Congress of Biology, 24 – 26 Sept. 1991. IPB Bogor.
1991	Retno, D.W.., Afandi, R., Sumawidjaja, K., **Widigdo, B**. 1991. Study on the Eating Habit of Betutu Larvae (*Oxyelotris marmorata* Blkr.)	National Congress of Biology, 24 – 26 Sept. 1991. IPB Bogor.

1989	**Widigdo B.** Histology Evaluation on Gold Fish Fed with Rotifer as Initial Feed (*Brachionus calyciflorus*) and Mass Culture of Rotifer	Center of Training and Development Nol. 17. Agriculture Research and Development Agency, Jakarta

I herewith declare that all information in the Curriculum Vitae is true, and should there be any mistakes therein, I am willing to be responsible to any possible consequences that may occur.

Bogor, December 2019

Dr. Ir. Bambang Widigdo
Assoc. Professor