



Jointly organized by
AARM, AIT and NEDAC



VIRTUAL AQUACULTURE WORKSHOP

i-FLOCS 2020

INNOVATIVE BIOFLOC TECHNOLOGIES FOR SUSTAINABLE PRODUCTION OF TILAPIA AND SHRIMP



23-25 NOVEMBER 2020

ZOOM LECTURE SESSIONS AND VIDEO TUTORIALS

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Asian Institute of Technology (AIT), established in 1959, is a premier post-graduate international institute in Thailand pioneering research and capacity building for the sustainable development of aquaculture in the Asian-Pacific region and beyond. In these times of restricted travel and social distancing, the AIT's Aquaculture and Aquatic Resources Management (AARM) Program organizes this Virtual Workshop on the innovative applications of Biofloc technology in the sustainable farming of tilapia and shrimp, adaptable to diverse farming environments.

The training is organized jointly with the Network for the Development of Agricultural Cooperatives in Asia and the Pacific (NEDAC), a regional forum established by the United Nations Food and Agricultural Organization (UN-FAO), linking the apex farmer cooperative organizations in 12 countries. The training is also a part of the International Conference on Fisheries and Aquaculture (ICFA-2020), which will be held this time as a Virtual Conference from 26 - 27 November 2020. Special registration fees are available for those who want to attend both the *i-FLOCS* 2020 Workshop and ICFA 2020. Please email to aarm@ait.ac.th for any questions.

The technical sessions will be led by some of the world's best-known resource persons on the topic and will include practical aspects of shrimp and tilapia farming technologies currently available. There will be special sessions on the intensive Biofloc technologies for tilapia and indoor shrimp farming.

The training is intended for:

- Enterprising farmers who would love learning new techniques and practices;
- Practicing business owners or novices with a passion for new ventures in aquaculture;
- Technical staff who want to get updated with the latest in the industry;
- Farm technicians who want to be eligible for a career promotion by learning new technologies;
- Researchers who believe that getting practical field information is key to their future;
- Government officials or activists working with NGOs who want to devise innovative development initiatives by learning new farming techniques; or
- Enterprising students who wish to be proficient in the next-big-thing in sustainable aquaculture.

The training would elaborate on the following:

- Basic concepts and principles of Biofloc technology
- Tilapia and shrimp production trends and current practices
- Application of Biofloc technology in the farming of shrimp and tilapia
- Sustainable farming techniques for intensive production of shrimp and tilapia
- Indoor shrimp production technology
- Health management in Biofloc systems
- Economics of intensive pond and tank production systems of fish and shrimp, and much more...

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RESOURCE PERSONS



Prof. Yoram Avnimelech, Ph.D.

Professor Emeritus / Technion - Israel Institute of Technology, Israel

Professor Yoram Avnimelech's name is synonymous with biofloc technology.

He has developed novel technologies for intensive fish and shrimp farming, based on the control of the microbial system in the pond. He presently heads the Aquaculture Engineering Society's (AES) Working Group on Biofloc Technology, and wrote the book *Biofloc Technology: A Practical Guide Book* (2012 & 2014) published by the World Aquaculture Society. He has served as a Board Member of Aquaculture Engineering Society and is presently on the Board of Directors of the World Aquaculture Society, chairing the Membership and Promotion Committee.



Dr. Nyan Taw, Ph.D.

Shrimp Aquaculture Consultant, Former Chief Technical Advisor and Consultant / FAO-World Bank, Vietnam

Dr. Nyan Taw has made significant contributions to the development of shrimp Biofloc technology, and has been an FAO Consultant for the World Bank-ADB funded projects in Vietnam. He was the former GM of Blue Archipelago Bhd, Malaysia; CTA for FAO projects and SVP/VP of Indonesian shrimp farming companies (Dipasena & CPB). He has published/presented over 80 papers, and recently co-authored a chapter in the book, *Biofloc Technology: A Practical Guide Book*, and published a book on Intensive shrimp farming systems in Asia.



Dr. Rohana Subasinghe, Ph.D.

Managing Director / FutureFish, Sri Lanka / Former Chief, Aquaculture Branch / FAO, Rome, Italy

Dr. Rohana Subasinghe is an ex-FAO aquaculture and fish health professional with decades of global experience, currently working with World Fish, Bill & Melinda Gates Foundation and the United States Agency for International Development, towards improving fish supplies in Africa through aquaculture.



Dr. Tzachi Samocha, Ph.D.

Professor Emeritus / Texas A&M AgriLife Research, USA

Dr. Tzachi Samocha is a recently retired Regents Fellow & Professor

with A&M AgriLife Research, USA. After obtaining his Ph.D. from Tel Aviv University, Israel he joined the National Center for Mariculture in Eilat, Israel where he served as Head of the Shrimp Research Unit from 1980 through 1988. In 1988 he joined the Texas A&M University System and for 27 years he served as Director of R&D at the AgriLife Research Mariculture Lab, Corpus Christi, Texas. His research covered induced maturation, larval rearing, and nutrition of several Penaeid shrimp species. In addition, he performed extensive studies on indoor raceways and outdoor ponds to develop new concepts in sustainable, biosecured, biofloc-dominated intensive nursery and grow-out systems. Other activities included research on aquaculture effluent water remediation using Integrated Multi-Trophic Aquaculture (IMTA) systems, halophytes, and microalgae. As part of his job responsibility as Director of R&D, he was heavily involved in technology transfer to commercial producers and industry related businesses.



Dato Dr. Mohamed Shariff Mohamed Din, Ph.D.

Faculty / Veterinary Medicine, Universiti Putra Malaysia, Malaysia

Dr. Shariff obtained his Ph.D. from University of Stirling. He has 43 years' experience in fish health and has served as a Consultant/Advisor to international agencies such as FAO, IDRC, NACA, ACIAR, and IFS. Shariff was the founder President of the Malaysian Fisheries Society and served as the President of the Asian Fisheries Society. He served on the Board of Trustees of the World Fish Centre and was also a member of the OIE Aquatic Animal Health Standards Commission. Dr. Shariff is a Fellow of the Academy of Sciences, Malaysia and is the Editor-In-Chief of the *Asian Fisheries Science*, a journal of the Asian Fisheries Society.

RESOURCE PERSONS



Dr. Victoria Alday-Sanz, Ph.D.

Director / Biosecurity and Breeding Programs at Saudi Arabia's National Aqua Group (NAQUA), Saudi Arabia

Victoria Alday-Sanz is a Veterinarian with an M.Sc. and Ph.D. from the University of Stirling. She has worked for over 30 years on diverse aspects of shrimp biosecurity: diagnostics, health management, sanitary legislation and development of SPF stocks. She has collaborated as an expert for international organizations such as FAO, EU, EFSA, WB and OIE as well as with the private sector such as shrimp producers, aquaculture financial and insurance companies worldwide. She has published over 30 papers in peer reviewed journals, over 50 articles in industry magazines, 5 book chapters, is co-author of the CD-rom Diagnosis of Shrimp Diseases and editor of The Shrimp Book. Presently, she is the Director for Biosecurity and Breeding Programs for the National Aquaculture Group of Saudi Arabia.



Mr. Soraphat Panakorn (Danny)

Shrimp Culture Specialist/ Novozymes, Thailand

Mr. Soraphat Panakorn (Danny) is a shrimp culture specialist with nearly 25 years of experience. He served as a technical consultant to several national and international projects with his practical experience in the most efficient utilization of inputs in shrimp farming, particularly troubleshooting in complex farming situations. He is a former Vice President of the Thai Aquaculture Business Association and a former Secretary of the Thai Shrimp Farmers Federation. Currently, he is working with the Thai Shrimp Network, Thai DoF PR Team, and Southern Thai Shrimp Club, and serves as a freelance columnist in Aquaculture Asia Pacific Magazine, writing about practical shrimp farm management suitable for Asia.



Dr. Amaratne Yakupitiyage, Ph.D.

Adjunct Professor / Asian Institute of Technology, Thailand

Dr. Amara obtained his Ph.D. from Stirling. He specializes in designing of tropical aquaculture systems, aquaculture nutrition, and feed technology. His research involves aquaculture waste management and Biofloc systems. He has supervised around 130 Masters and 30 Doctoral students, and published over 60 peer-reviewed papers.



Dr. Ganesh Kumar, Ph.D.

Assistant Professor / Mississippi State University, USA

Dr. Ganesh Kumar is an Assistant Professor at Mississippi State University, specializing in aquaculture economics. He has a Master's degree in Inland Aquaculture from CIFE, India; Master's in Aquaculture Marketing, and Ph.D. in Aquaculture Economics from the University of Arkansas, Pine Bluff, focused on the economics and risks of alternative-production systems for fish growout. His primary focus of research is in practical applications of the principle of aquaculture farm management, mathematical programming, and risk analysis. He is the current Treasurer and Secretary for the International Association of Aquaculture Economics and Management as well as the Associate Editor for the Journal of Aquaculture Economics and Management.



Mr. Amorn Luengnaruemitchai

Managing Director / Manit Genetics, Thailand

Mr. Amorn Luengnaruemitchai received Master's degree in Aquaculture and Aquatic Resources Management (AARM) from AIT, Thailand. He is currently the Managing Director of Manit Genetics, among the top three tilapia production companies in Thailand providing fry and fingerlings to farms in Thailand and the region. The company supplies high quality tilapia fry (SuperBlack Nile tilapia and SuperRed red tilapia) with attributes of high survival and growth rate, and quality feed under both the Manit Farm and OHO brands.



Dr. Krishna R. Salin, Ph.D.

Chair, AARM Academic Program/ Asian Institute of Technology, Thailand

Dr. Salin is currently coordinating the Aquaculture and Aquatic Resources Management (AARM) Program of Asian Institute of Technology as its Chair. He has set a new research focus for AARM, centered on sustainable intensification of aquaculture production and has initiated a series of research and capacity development programs substantially boosting the visibility of AIT's Aquaculture Program in the Asia-Pacific region and beyond.

COURSE CONTENTS:

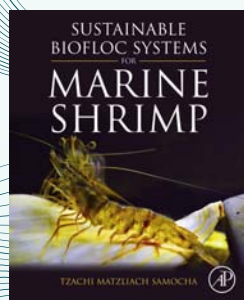
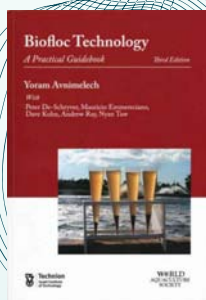
- Introduction and Overview
- Biofloc technology - Basic concepts and principles
- Nutritional benefits of Biofloc production systems
- Intensive pond culture of tilapia in a Biofloc system
- Innovative tilapia production technologies in Thailand
- Global aquaculture review with emphasis on shrimp and tilapia
- Design, Operation & Profitability of high-density indoor Biofloc-dominated systems for the Pacific white shrimp
- All you wanted to know about the electronic version of the Manual: *Sustainable Biofloc Systems for Marine Shrimp*
- Intensive, Biofloc shrimp farming - The Asian experience
- Benefits of biofloc systems for management of diseases

- Biosecurity in shrimp Biofloc systems
- Aeration, feeding, and emergency management of shrimp farm
- Economics of tilapia Biofloc production systems
- Economics of intensive pond and tank production systems
- Managing the production cost in a shrimp farm

Dr. Krishna R. Salin
Dr. Amara Yakupitiyage
Dr. Amara Yakupitiyage
Dr. Yoram Avnimelech
Mr. Amorn Luengnaruemitchai
Dr. Rohana Subasinghe
Dr. Tzachi Samocha

Dr. Tzachi Samocha

Dr. Nyan Taw
Dr. Mohamed Shariff
Mohamed Din
Dr. Victoria Alday-Sanz
Mr. Soraphat Panakorn
Dr. Yoram Avnimelech
Dr. Ganesh Kumar
Mr. Soraphat Panakorn



COURSE FEES:

- 350 USD per person
- Early bird price: 300 USD per person (Register before 15 November 2020)

Ordering these 2 books is now easy!

Attractive discounts for i-FLOCS 2020 participants if you order before 18 Nov 2020

All you wanted to know about the two Manuals:
Biofloc Technology: A Practical Guidebook &
Sustainable Biofloc Systems for Marine Shrimp

CONTACT

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Register Here

