



Wednesday January 23, 2019

Venue : Main hall

Aquaculture production system

Chairs: Dr J. K. Jena DDG (Fisheries Science), Dr K.K. Vijayan Director, CIBA

Rapporteurs: Dr T. V. Sathianandan, CMFRI, Dr M. Kailasam, CIBA

Each Invited speaker: 20 minutes

Oral presentation: 6 min (including discussion)

Sl No	Topic	Speakers	Time
Lead presentations			
1.	Global shrimp farming industry: strength, opportunities and way forward	Dr George Chamberlain, USA	10:30
2.	Selective breeding of vannamei and its impact on world aquaculture, lessons for future	Dr Jim Wyban, USA	10:50
3.	Shrimp Genetics are not every thing	Dr Robin McIntosh, Thailand	11:10
4.	Aquaculture and Fisheries in Japan: Future Directions	Dr K. Ikuta	11:30
Oral presentations			
5.	Efficacy of biofloc technology (BFT) in waterquality, growth performance and body composition of Cyprinus carpio fingerlings	Paramveer Singh College of Fisheries, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab	11:40
6.	Optimisation of duration of stunting improves growth, physiology and carcass quality of milkfish, Chanos chanos (Forsskal, 1775) under field conditions: A relevant farmers' advisory	Somu Sunder Lingam ICAR-Central Institute of Fisheries Education, Versova, Mumbai	11:46
7.	Application of Integrated Multi-trophic Aquaculture (IMTA) concept in brackishwater eco-system: The first exploratory trial in the Sundarban, India	Biswas G. Kakdwip Research Centre of ICAR- Central Institute of Brackishwater Aquaculture, West Bengal	11:52



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| 8. | Experimental culture trial to compare the growth performance and survival of <i>Lates calcarifer</i> (Bloch, 1790) fingerlings fed with low-cost simply formulated feed vs fish offal. Can it be a solution for small scale farmers? | Parakrama M.G.I.S.
National Aquatic Resources
Research and Development
Agency, Colombo | 11:58 |
| 9. | Farming of white leg shrimp, <i>Penaeus vannamei</i> using high alkaline and low saline ground water in south western Punjab, India | Jose Antony
ICAR-Central Institute of
Brackishwater Aquaculture,
Chennai | 12:04 |
| 10. | Grow-out trial of the Giant Trevally <i>Caranx ignobilis</i> in small-scale cages in Kancheepuram district, Tamil Nadu | Joe K. Kizhakudan
Madras Research Centre,
ICAR-Central Marine Fisheries
Research Institute, Chennai | 12:10 |
| 11. | The use of silicic acid (Siliyak [®]) as growth promotor for shrimps | Laane H.M
ReXil Agro BV, the
Netherlands | 12:16 |
| | Remarks | Chairs | 12:25 |

E posters (January 23, 2019, 12:15-15:00)



Wednesday January 23, 2019

Venue : Main hall

Reproduction and larviculture

Chairs: Dr A. Ramachandran, Vice Chancellor, KUFOS; Dr Bindu R Pillai, Director,

CIFA

Rapporteurs: Dr C.P. Balasubramanian, CIBA; Dr S.K. Sahoo, CIFA

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

SI No	Topic	Speakers	Time
Lead presentations			
1.	Advances in science of reproductive physiology of crustaceans in relation to challenges in captive breeding and seed production	Dr Marcy N. Wilder, Japan	12:15
2.	Commercial scale larviculture of penaeid shrimp in India: Status and Challenges	Mr Madhusudan Reddy, India	12:35
3.	Aquaculture standards and certification	Dr Ken Corpron, USA	12:55
4.	Osmoregulation in euryhaline fish and rearing in different salinity regimes with special reference to brackishwater aquaculture	Dr Pung Pung Hwang, Taiwan	14:00
Oral presentations			
5.	Histo-morphology of pituitary gonadotrophs of seabass, <i>Lates calcarifer</i> (Bloch), in relation to ovarian maturation	Kuldeep K. Lal ICAR-National Bureau of Fish Genetic Resources, Lucknow, Uttar Pradesh	14:41
6.	Induced breeding and developmental biology of endemic Western Ghats fish <i>Dawkinsia filamentosa</i> (Valenciennes, 1844) under captive conditions	Mahadevi Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Tamil Nadu	14:47
7.	Potential and challenges in the reproductive and larval performance of wild stock of	Shyne Anand ICAR-Central Institute of	14:53



Indian white shrimp, *Penaeus indicus* along the east coast of India

Brackishwater Aquaculture, Chennai, Tamil Nadu

8. Expression profile of ecdysteroid receptor mRNA in wild broodstock of giant tiger shrimp, *Penaeus monodon*

Merlin J. R. 14:59
ICAR-Central Institute of Brackishwater Aquaculture, Chennai, Tamil Nadu-600 028, India

Remarks

Chairs 13:05

E posters (January 23, 2019, 15:15-18:05)



Wednesday January 23, 2019

Venue : Main hall

Fish and shell fish nutrition

Chairs: Dr K. Gopakumar, Former DDG (Fisheries Science); Dr. Debajit Sarma, Director, DCFR

Rapporteurs: Dr. P. Vijayagopal, CMFRI; Dr. Debasis De, CIBA

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

Sl No	Topic	Speakers	Time
Lead presentations			
1.	Advances in nutritional physiology of aquaculture species	Dr Chris G. Carter, Australia	15:15
2.	Radiation processing of fish and fishery products for shelf life extension	Dr V. P. Venugopalan, India	15:35
3.	Alternate feed resources in global aqua-feed basket	Dr Lena Burri, Norway	15:55
4.	Use of Vibrio free Artemia naupli and future developments	Mr Siddhartha Yarabolu, India	16:15
5.	Rearing system (RAS) based feeds: Aquaculture nutrition and beyond	Dr Antony Jesu Prabhu, Norway	16:35
Oral presentations			
6.	Effect of diurnal fluctuation of dietary protein level on growth and digestive enzymes of snubnos32pompano, <i>Trachinotus blochii</i> (Lacepede, 1801)	Linga Prabu D. Tuticorin Research Centre, ICAR-Central Marine Fisheries Research Institute, Tuticorin, Tamil Nadu	16:55
7.	Growth promotion, antibacterial and immune enhancement activity of brown seaweeds against pathogenic <i>Vibrio</i> species in shrimp (<i>Penaeus monodon</i>)	Sheikh AftabUddin Institute of Marine Sciences and Fisheries, University of Chittagong, Chittagong	17:00



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| 8. | Dietary incorporation of Lactobacillus acidophilus and its influence on the survival and growth performance of estuarine fish <i>Etroplus suratensis</i> | Sandeep C.V.
Department of Aquaculture,
College of Fisheries, Mangaluru,
Karnataka | 17:06 |
| 9. | Effect of dietary vitamin C supplementation on growth and survival of milkfish, <i>Chanos chanos</i> larvae | Sivaramakrishnan T.
ICAR-Central Institute of
Brackishwater Aquaculture, Chennai,
Tamil Nadu | 17:12 |
| 10. | Corn protein concentrate as an alternate for fishmeal in the diet of Asian seabass, <i>Lateolabrax niloticus</i> | Nandakumar S.
ICAR-Central Institute of
Brackishwater Aquaculture, Chennai,
Tamil Nadu | 17:18 |
| 11. | Prospective use of <i>Aurantiochytrium</i> sp. MBT21 (Thraustochytrid) in aquaculture as a nutritional supplement | Preetha K.
Cochin University of Science and
Technology, Kochi, Kerala | 17:24 |
| 12. | Effect of <i>Cassia roxburghii</i> as a plant-based feed additive on growth performance, nutrient utilisation and health status of <i>Oreochromis mossambicus</i> | Nithin Jacob
Centre of excellence in
Aquaculture and Aquatic Health
Management, Kerala University
of Fisheries and Ocean Studies,
Kochi | 17:30 |
| 13. | Effect of antagonistic shrimp feed on the growth and survival of black tiger shrimp <i>Penaeus monodon</i> post larvae | Sayooj P.
ICAR-Central Marine Fisheries
Research Institute, Kochi, Kerala | 17:36 |
| 14. | Effect of <i>Spirulina</i> as dietary supplement on growth and colour enhancement in silver moony, <i>Monodactylus argenteus</i> (Linnaeus, 1758) | Induri Ashok
College of Fishery Science,
Nellore, Andhra Pradesh | 17:42 |
| 15. | Efficacy of different zooplankton as live feeds in the rearing of ornamental fish larvae | Altuff K.
Department of Marine
Biotechnology, AMET
University, Chennai, Tamil Nadu | 17:48 |
| | Remarks | Chairs | 17: 54 |
| | E posters (January 24, 2019, 09:30-13:00) | | |



Thursday January 24, 2019

Venue : Main hall

Aquatic animal health

Chairs: Dr K.M. Shankar, Emeritus Professor, Veterinary College, Shimoga, Karnataka; Dr B.K. Das, Director, CIFRI

Rapporteurs: Dr S.K. Otta, CIBA; Dr N.K. Sanil, CMFRI

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

Sl No	Topic	Speakers	Time
Lead presentations			
1.	Epidemiological approaches to the aquatic animal health management: Opportunities and challenges	Dr Kenton Morgan, UK	09:30
2.	Is early mortality syndrome (EMS) due to bacteria or complex aetiology?	Dr Mrs. Indrani Karunasagar, India	09:50
3.	New paradigms to solve the global aquaculture disease crisis and the role of novel diagnostic solutions	Dr Kallaya Sritunyalucksana, Thailand	10:10
4.	Microbes of economic importance in aquaculture	Dr Iddya Karunasagar, India	10:30
5.	Crustacean immunity as a tool in health management in shrimp farming.	Dr Chris Hauton, UK	10:50
6.	Fish cytokines: Application for aquaculture.	Dr Masahiro Sakai, University of Miyazaki, Japan	11:10
Oral presentations			
7.	The soluble-form of toll-like receptor 5 interacts with the membrane-form and induces expression of interleukin-1 β Gene in Japanese Flounder, <i>Paralichthys olivaceus</i>	Jun-ichi Hikima Faculty of Agriculture, University of Miyazaki, 1-1 Gakuenkibanadai-nishi, Miyazaki, Japan	11:40

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| 8. | First report on co-infection of Perkinsus sp. and Proteus mirabilis in the bivalve Magallana bilineata (Roding, 1798) from Pulicat Lake, Tamil Nadu, South-east coast region of India | Uma A.
State Referral Laboratory for Aquatic Animal Health,
Tamil Nadu Dr. J.J. Jayalithaa University-Madhavaram Campus,
Chennai, Tamil Nadu | 11:46 |
| 9. | Development of environmental DNA (eDNA) based polymerase chain reaction (PCR) for the detection of bivalve protozoan parasite, Perkinsus spp. In aquatic ecosystems | Pradeep M. A.
ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala | 11:52 |
| 10. | Rapid field-usable diagnostics for the detection of viral pathogens affecting shrimp and prawns | Snehal Jamalpure
Nanobioscience Group, Agharkar Research Institute, Pune,
Maharashtra | 11:58 |
| 11. | High Mobility Group Box 1(HMGB1): A protein of interest activating the innate immune response from human to fish | Mrinal Samanta
Fish Health Management Division,
ICAR-Central Institute of Freshwater Aquaculture,
Bhubaneswar, Odisha | 12:04 |
| 12. | Assessing the minimum inhibitory concentration of Extended-Spectrum-Beta-Lactamase(ESBL) producing Escherichia coli strains from shrimp aquaculture | Sivaraman G. K.
Microbiology, Fermentation & Biotechnology Division, ICAR-Central Institute of Fisheries Technology, Kochi, Kerala | 12:10 |
| 13. | Co-infection of cage farmed cobia (Rachycentron canadum)with Photobacterium damsela ssp damsela and Vibrio harveyi | Krupesha Sharma S. R.
ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala | 12:16 |
| 14. | Surveillance of diseases in farmed Penaeus vannamei in the Indian Sunderbans | Jawahar Abraham T.
Faculty of Fishery Sciences, West Bengal University of Animal and Fishery Sciences, Chakgaria,
Kolkata, West Bengal | 12:22 |
| 15. | Comparative genomics of zoonotic fish | Neetu Shahi | 12:28 |



	pathogen <i>Lactococcus garvieae</i> RTCLI04, isolated from farmed rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum) in India	ICAR-Directorate of Coldwater Fisheries Research, Bhimtal, Uttarakhand	
16.	Development of inactivated oral NNV vaccine for Asian seabass, <i>Lates calcarifer</i>	Makesh M. ICAR-Central Institute of Brackishwater Aquaculture, Chennai, Tamil Nadu	12:34
17.	Evaluation of white spot syndrome virus in the wild spawning population of Indian white shrimp, <i>Penaeus indicus</i>	Vijayan K. K. ICAR-Central Institute of Brackishwater Aquaculture, Chennai, Tamil Nadu	12:40
	Remarks E posters (January 24, 2019, 14:00-16:30)	Chairs	12:46



Thursday January 24, 2019

Venue : Main hall

Aquaculture genetics and biotechnology

Chairs: Dr Gopal Krishna, Vice Chancellor, CIFE; Dr Kuldeep K. Lal, Director, NBFGR

Rapporteurs: Dr M.S. Shekar, CIBA; Dr T. Raja Swaminathan, NBFGR

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

Sl No	Topic	Speakers	Time
Lead presentations			
1.	Genetic improvement programs in shrimp farming: An industrial perspective	Mr Robin Pearl, USA	14:00
2.	Selective breeding in shrimp for a better aquaculture trait-A Mexican experience	Mr Gustavo Pinedo Mahr, Mexico	14:20
3.	Towards domestication and genetic improvement of native Indian white shrimp <i>Penaeus indicus</i>	Dr K.K. Vijayan, India	14:40
4.	De novo genome sequencing and hybrid assembly approach for complex fish genomes	Dr Dushyant Singh Baghel, India	15:00
5.	Genome sequence of anadromous Hilsa shad, <i>Tenualosa ilisha</i> (Hamilton, 1822) as a resource for salinity adaptation and evolution	Dr Vindhya Mohindra, India	15:20
Oral presentations			
6.	Environmental DNA–Potential tool for non-invasive and accurate monitoring of aquatic biodiversity	Jayasankar P. ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala	15:50
7.	Understanding the course of infection: Determining gene expression changes with time in <i>Penaeus vannamei</i> infected with	Luca Peruzza School of Ocean and Earth Science, University of	15:56



	White Spot Syndrome Virus	Southampton, Hampshire, United Kingdom	
8.	From gaps to bridges: Challenges in whole genome sequencing of <i>Penaeus indicus</i> , a white shrimp farmed across the South East Asia	Shekhar M. S. Central Institute of Brackishwater Aquaculture, Chennai, Tamil Nadu	16:02
9.	Illumina sequencing-based analysis of sediment bacterial community in freshwater finfish aquaculture ponds	Ahamed Basha K. Visakhapatnam Research Centre, ICAR-Central Institute of Fisheries Technology Visakhapatnam, Andhra Pradesh	16:08
10.	Fabrication of three- dimensional tissue engineered constructs using marine bioactive materials for diverse applications	Santhana Vignesh T. Tuticorin Research Centre, ICAR-Central Marine Fisheries Research Institute, Tuticorin, Tamil Nadu	16:14
	Remarks	Chairs	16:20

E posters (January 24, 2019, 16:30-18:30)

Thursday January 24, 2019

Venue : Main hall

Aquatic environment and climate change

Chairs: Dr. A. Gopalakrishnan, Director CMFRI; Dr. K. K. Ramachandran, Group Head, Atmospheric Process (Atp), National Centre for Earth Science Studies, Trivandrum

Rapporteurs: Dr. P. U. Zacharia, CMFRI; Dr. M. Muralidhar, CIBA

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

Sl No	Topic	Speakers	Time
Lead presentations			
1.	Environmental factors of significance in relation to aquatic biological resource in relevance to climate change	Dr M. Sudhakar, India	16:30
2.	The risks of pesticide pollution in prawn and oyster aquaculture	Dr Kirsten Benkendorff, Australia	16:50
3.	Aquatic pollution & its impact on estuaries and brackishwater aquaculture	Dr P. K. Krishnakumar, Saudi Arabia	17:10
4.	Need for ecosystem approach to brackishwater shrimp farming - A case from Andhra Pradesh, India	Mr C. M. Muralidharan, FAO consultant	17:30
Oral presentations			
5.	Effect of salinity variations and addition of humic acid for controlling GHG emission from different aquaculture systems	Sanchita Naskar ICAR-Central Institute of Fisheries Education, Versova, Mumbai	17:50
6.	Aragonite saturation state—A measure of climate change associated threat to shrimp farming in aquaculture pond systems	Aravindraj M. Madurai Kamaraj University, Madurai, Tamil Nadu	17:56
7.	Abnormal diurnal variation in a fresh water fish pond: Ups and downs: A case	Geethu Mohan Kerala University of Fisheries and	18:02



	study	Ocean Studies, Kochi, Kerala	
8.	Characterisation of biochar from water hyacinth <i>Eichhornia crassipes</i> and its effects on the growth of fish and paddy in integrated culture systems	Najmudeen T. M. ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala	18:08
9.	Constitution of an integrative approach for scaling up adaptation options to combat climate change through climate-smart village (CSV) concept: A case study from Karnataka	Dineshbabu A. P. Mangalore Research Centre of ICAR-Central Marine Fisheries Research Institute, Karnataka	18:14
	Remarks	Chairs	18:20

E posters (January 25, 2019, 09:30- 11:30)



Friday January 25, 2019

Venue : Main hall

Brackishwater ecosystem, estuarine biodiversity and conservation

Chairs: Prof. Dr Ramesh Ramchandran, Director, NCSCM; Dr B. Madhusoodhana Kurup, Former Vice Chancellor, KUFOS

Rapporteurs: Dr R. Saraswathy, CIBA; Dr P. Lakshmi Latha, CMFRI

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

Sl No	Topic	Speakers	Time
Lead presentations			
1.	Lead presentation 1, Integration of mangrove conservation with rural livelihood : Maharashtra experience	Mr N. Vasudevan, India	09:30
2.	Lead presentation 2, Integrated multi-trophic aquaculture systems: Models for brackishwater aquaculture	Dr Amir Neori, Israel	09:50
3.	Lead presentation 3, Ecosystem approach to sustainable aquaculture	Dr Sunil Mohamed, India	10:10
4.	Lead presentation 4, Sustainable development goals, aichi biodiversity targets and estuarine conservation	Dr Rajeev Raghavan. India	10:30
Oral presentations			
5.	Comparison of water quality and plankton productivity near sea bass culture facilities and open lagoon in Chilaw area, Sri Lanka	A.S.L.E. Corea National Aquatic Resources Research and Development Agency, Colombo	10:50
6.	Seasonal shifting of ETM in the Cochin Estuary- Satellite imagery perspective	Abdul Azeez. S. CSIR-National Institute of Oceanography, Regional Centre Kochi, Kerala	10:56



7.	Physical measurements in estuaries	Revichandran C. CSIR-National Institute of Oceanography, Regional Centre Kochi, Kerala	11:02
8.	Safeguarding the blue swimming crab fishery-Significance and strategies for long term management	Jose Josileen ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala	11:08
9.	Fish trophic structure in three macrotidal estuaries from West Coast of India: A functional trophic guild approach	Sreekanth G. B. ICAR-Central Coastal Agricultural Research Institute, Old Goa, Goa	11:14
10.	Molecular investigations reveal distinct species status of <i>Paphia malabarica</i> from Indian waters	Sandhya Sukumaran ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala	11:20
	Remarks	Chairs	11:26

E posters (January 25, 2019, 11:40-13:20)



Friday January 25, 2019

Venue : Main hall

Socio-economic and livelihood issues of fisheries and aquaculture

Chairs: Dr M.A. Atmanand, Director, NIOT, Dr Yugraj Singh Yadava, Director, BOBP-IGO, India

Rapporteurs: Dr T. Ravisankar, CIBA; Dr Shyam S. Salim, CMFRI

Each speaker: 20 Mins

Oral presentation 6 min (Including discussion)

Sl No	Topic	Speakers	Time
1.	Lead presentation 1, Challenges in implementing integrated coastal zone management in India	Dr Yugraj Singh Yadava, India	11:40
2.	Lead presentation 2, Exploring different dimensions of poverty in relation to aquaculture in India & Bangladesh	Dr S. Shubin, UK	12:00
3.	Lead presentation 3, Aquaponics for tropics with brackishwater species: Bangladesh experience, relevant to India and other Asian countries	Dr Md Abdus Salam, Bangladesh	12:20
Oral presentations			
4.	Consideration of socio-economic and livelihood issues in impact assessment for Fisheries/Aquaculture projects in Nigeria: A case study	Meshach O. Ojile Faculty of Social Sciences, Niger Delta University, Wilberforce Island Nigeria	12:40
5.	Integrated fish farming by tribal poor of Boipariguda block, Koraput district, Odisha—A profitable model	Bikram K Baliarsingh M.S. Swaminathan Research Foundation, Koraput, Odisha	12:46
6.	Economic recession and Indian seafood exports: Reflections and paradigms	Shyam S. Salim ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala	12:52



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| 7. | Brackishwater aquaculture farming—a profitable enterprise for doubling farmers' income | Sairam C.V
ICAR-Central Institute of Brackishwater Aquaculture, Chennai, Tamil Nadu | 12:58 |
| 8. | Trends and structural changes in fishery sector in India: Implication for sustainable growth | Suresh. A.
ICAR-Central Institute of Fisheries Technology, Kochi, Kerala | 13:04 |
| | Mussel culture in Kasaragod district, Kerala: Present status and future | Manoj kumar B.
Kerala University of Fisheries and Ocean studies, Cochin | 13:10 |
| | Remarks | Chairs | |

E posters (January 25, 2019, 14:15-15:30)

