



Inaugural address by Dr. M. V. Gupta

## CMFRI hosts 9<sup>th</sup> Indian Fisheries Forum at Chennai

19-23 December 2011

The five-day national triennial conference with the theme “Renaissance in fisheries-Outlook and Strategies” was attended by more than 1000 fisheries experts from various research institutes, universities, fisheries-related industries, and NGOs across the country.

Dr. M.V. Gupta, the World Food Prize Winner inaugurated the 9<sup>th</sup> Indian Fisheries Forum hosted by Central Marine Fisheries Research Institute (CMFRI) in association with the Asian Fisheries Society (AFS) at the IMAGE auditorium on 19<sup>th</sup> December 2011 at Chennai. He outlined a twin-track strategy for bringing about renaissance in Indian fisheries sector by focusing on sustainable intensification of aquaculture and implementing a scientifically informed

**“Fisheries to provide a renewed vital link in India’s Food Security”**

Dr. M.V Gupta, the World Food Prize Winner

governance system in the capture fisheries sector. He pointed out that the government should pay more attention in making the State level delivery mechanisms more efficient.

Dr. B. Meenakumari, Deputy Director General (Fisheries) ICAR in her presidential address remarked that priority will be given to targeted fisheries sector development in the 12<sup>th</sup> plan in order to reduce the demand supply gap in fish production. By 2012 the fish production has to be increased to 12 million tons from the existing level of 8 million tons which demands an integrated and need based research and developmental approach.

Dr. Balakrishna Pisupati, Chairman, National Biodiversity Authority in his felicitation address called for an IPCC like platform to ensure biodiversity security



Dr. B. Meenakumari, DDG. (Fy) ICAR



Dr. Derek Staples, President, AFS



Dr. Mohan Joseph Modayil, Chairman AFSIB & Member, ASRB



Dr. G. Syda Rao, Convener, 9<sup>th</sup> IFF & Director, CMFRI



Dr. Ambekar E. Eknath, Director General, NACA



Dr. Balakrishna Pisupati, Chairman, NBA

## Release of Book of Abstracts and Souvenir



Dr. Mohan Joseph Modayil releasing the Book of Abstracts

and highlighted the need for increasing Marine Protected Areas in Indian EEZ as a conservation and management measure.

Dr. Ambekar E. Eknath, Director General, Network of Aquaculture Centres in Asia-Pacific (NACA), Bangkok, Thailand pointed out that fisheries education in India should undergo a sea change to produce responsible and qualified leaders without whom no renaissance would be possible in the future.

Dr. Derek Staples, President, AFS called on the Indian Fisheries Forum to act as a platform to bridge the communication divide existing between the scientists and stakeholders. Though the Asian region is contributing 90% of the global production in aquaculture it is not being given sufficient recognition. The Asian fisheries society is taking efforts to overcome this deficiency by starting Asia – Pacific Fish Watch programme.

A number of experts were honoured during the occasion.

Dr. G. Syda Rao, Dr. J.K Jena, Dr. Srinivasa Gopal, Dr. Sanjeevan and Dr. Eknath were honoured with Dr. S. N.

Dwivedi ASET Fellowships.

Dr. Mohan Joseph Modayil, Chairman AFSIB, Dr. E. Vivekanandan, Co-Convener 9<sup>th</sup> IFF, and Dr. G. Syda Rao, Convener 9<sup>th</sup> IFF & Director, CMFRI spoke on the occasion.

An exhibition showcasing the recent technological and entrepreneurial developments in the Fisheries Sector was also organized during the conference.

The abstract book and the 9<sup>th</sup> IFF souvenir were released on the occasion.

Nearly 550 delegates registered for the forum and more than 672 abstracts were received for the presentations (443 Oral and 229 Poster). The presentations were grouped under following themes: Fisheries Resources Management (FR), Aquaculture Production (AP), Genetics, Breeding and Biotechnology (GB), Environmental Impacts and Aquatic Health (EH), Nutrition and Fish Health (NH), Harvest and Post-harvest technology (HP), Socio-economics, Marketing and Livelihood (SE), Fish and Fish Related Biodiversity (BD), Climate Change and Natural Disaster Management (CC), and Fisheries Trade, Policies and Governance (FT).

## Dr. S. N. Dwivedi ASET Fellowship Awards



Dr. G. Syda Rao, Director receiving the fellowship from Dr. S. N. Dwivedi



Dr. Ambekar E. Eknath receiving the fellowship



Dr. T. K. Sreenivasa Gopal, Director, CIFT receiving the fellowship



Dr. J. K. Jena, Director, NBFGR receiving the fellowship



A section of the delegates

## Dr. TVR Pillay Aquaculture Awards



Dr. Sunil K. Mohamed receiving the award from Dr. Meena Kumari



Dr. J. K. Jena receiving the award from Dr. Balakrishna Pisupati

### The following awards were presented

Award	Winners
Dr. T.V.R. Pillay Aquaculture Award	1. Dr. Sunil K Mohamed and team Central Marine Fisheries Research Institute, Cochin 2 Dr. J. K. Jena Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha/ presently at NBFGR, Lucknow
Prof. H.P.C. Shetty Award	Dr. P. K. Sahoo Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha
The First Shri. J.V.H. Dixitulu National Award for Outstanding work for Fisheries Communication	Shri. V. Edwin Joseph Central Marine Fisheries Research Institute, Cochin
Dr. T. J. Pandian – A.J. Matty Award	Dr. Rekhadevi Chakraborty Central Marine Fisheries Research Institute, Cochin
AFS (Kuala Lumpur) Awards Lifetime Achievement Award	Dr. J. V. H. Dixitulu Chief Editor and Publisher, Fishing Chimes, Visakhapatnam
AFS Merit Award	Dr. A. Gopalakrishnan National Bureau of Fish Genetic Resources Kochi Unit, Cochin



Dr. P. K. Sahoo receiving Prof. H.P.C. Shetty Award from Dr. Ambekar E. Eknath

## Shri J.V.H. Dixitulu National Award for Outstanding work

The Association of Aquaculturists (based in Central Institute of Freshwater Aquaculture, Bhubaneswar), Marine Biological Association of India (MBAI - based in Central Marine Fisheries Research Institute, Kochi) and the Inland Fisheries Society of India (IFSI - based in Central Inland Fisheries Research Institute, Barrackpore), have instituted in 2010, Shri. J.V.H. Dixitulu National Award to recognize outstanding contributions in the field of fisheries extension/communication in India. The Award was given during the triennial Indian Fisheries Forum organized by the AFSIB.

The First National Award was presented to Shri. V. Edwin Joseph, Officer-in-Charge, Library and Documentation and the Librarian of CMFRI by Shri. J. V. H. Dixitulu during the 9<sup>th</sup> Indian Fisheries Forum at Chennai. The award carries a memento, citation and cash award of Rs. 15,000/-.



Shri. V. Edwin Joseph receiving the First Shri. J.V.H. Dixitulu National Award for Outstanding work on Fisheries Communication from Shri Dixitulu



Shri. J.V.H. Dixitulu receiving AFS (Kuala Lumpur) Lifetime Achievement Award from Dr. Mohan Joseph Modayil

Dr. Rekhadevi Chakraborty receiving Dr. T. J. Pandian - A. J. Matty Award from Dr. Balakrishna Pisupati





Dr. A. Gopalakrishnan receiving AFS Merit Award from Dr. Derek Staples. Dr. Mohan Joseph Modayil is also seen

## Technical Sessions

Research papers were presented in parallel sessions during December 20-23, 2011. Out of the accepted 672 abstracts, 299 papers were presented orally and 122 posters were presented. The details of the technical sessions are given below.

Sl. No.	Technical Sessions	Chair	Co-chair	No of Abstracts	
				Accepted	Presented
1.	<b>Fisheries Resources Management (FR)</b>				
	Session 1	Dr. A.P. Sharma	Dr. P.U. Zacharia	57	39
	Session 2	Dr. P.S.B.R. James	Dr. T.V. Sathianandan		
	Session 3	Dr. Sudhakar Rao	Dr. E.V. Radhakrishnan		
Session 4	Dr. K.K. Vass	Dr. Prathibha Rohit			
2.	<b>Aquaculture Production (AP)</b>				
	Session 1	Dr. J.K. Jena	Dr. A.R. Thirunavukkarasu	40	16
	Session 2	Dr. Dilip Kumar	Dr. Grace Mathew		
	Session 3	Dr. A.G. Ponniah	Dr. P. Ravichandran		
Session 4	Dr. Madan Mohan	Dr. K.S. Mohamed			
3.	<b>Genetics, Breeding &amp; Biotechnology (GB)</b>				
	Session 1	Dr. K.K. Vass	Dr. G. Gopi Krishna	24	15
	Session 2	Dr. T.J. Pandian	Dr. P.C. Thomas		
Session 3	Dr. P. Jayasankar	Dr. K.N. Mohanta			
4.	<b>Environmental Impacts &amp; aquatic Health (EH)</b>				
	Session 1	Dr. P.K. Katilha	-Nil-	19	12
Session 2	Dr. V.N. Pillai	-Nil-			
5.	<b>Nutrition and Fish Health (NH)</b>				
	Session 1	Dr. R. Paul Raj	Dr. A.K. Pal	43	17
	Session 2	Dr. G.R.M. Rao	Dr. P. Vijayagopal		
	Session 3	Dr. N. Sarangi	Dr. S.M. Pillai		
Session 4	Dr. K.K. Vijayan	Dr. J.K. Sundaray			
6.	<b>Harvest &amp; Post-harvest Technology (HP)</b>			17	9
	Session 1	Dr. T.K. Srinivasa Gopal	Dr. Leela Edwin		
	Session 2	Dr. S.D. Singh	Dr. T.V. Sankar		
7.	<b>Socio-economics, marketing &amp; Livelihood (SE)</b>			18	6
	Session 1	Dr. C. Vasudevappa	Dr. R. Narayanakumar		
	Session 2	Dr. R. Sathidas	Dr. M. Krishnan		
8.	<b>Fish &amp; Fish related Biodiversity (BD)</b>				
	Session 1	Dr. R. Soundararajan	Dr. G. Maheswarudu	9	5
Session 2	Dr. S. Ajmal Khan	Dr. T.S. Naomi			
9.	<b>Climate change &amp; Natural disaster Management (CC)</b>	Dr. E.V. Radhakrishnan	Dr. V.V. Singh	4	3
10.	<b>Fisheries trade, policies and governance (FT)</b>	Dr. Y. S. Yadava	Dr. R. Narayanakumar	4	

## Poster Presentations

Fishery Resources, Recreational Fisheries and Sustainable Management	57	39
Aquaculture Production	40	16
Nutrition and Fish Health	43	17
Genetics, Breeding and Biotechnology	24	15
Environment Impacts and Aquatic Health	19	12
Harvest and Post-harvest Technology	17	9
Socio-economics, Marketing and Livelihood	18	6
Fisheries Trade, Policies and Governance	-	-
Fish and Fish related Biodiversity	9	5
Climate Change and Natural Disaster Management	4	3

## Poster Sessions



# Glimpses of 9<sup>th</sup> Indian Fisheries Sessions in Progress



# es Forum



Dr. P. S. B. R. James speaking

## Parallel Sessions

In addition to the oral and poster presentations, the following two parallel events were held:

Fisheries Management for Sustainability Livelihood (FIMSUL) by FAO on the afternoon of December 20, 2011. The session highlighted the following:

- Background of FIMSUL
- Livelihood changes and trends in marine fisheries in Tamil Nadu and Puducherry
- Options for marine fisheries management in Tamil Nadu and Puducherry
- Options on policy and legal framework on marine fisheries in Tamil Nadu and Puducherry

Dr. K. Gopakumar, Dr. S D Tripathi and Dr. V N Pillai were the Panelists in the parallel event "FIMSUL).



Dr. G. Syda Rao, Convener, 9<sup>th</sup> IFF and Director, CMFRI, delivering vote of thanks

## PFGF Award Function

Professional Fisheries Graduates Forum award function was held on 22nd December 2011. Dr. G. Syda Rao, Director CMFRI was the Chief Guest and Dr. A. P. Sharma, Director, CIFRI and Dr. J. K. Jena, Director, NBFGR were the guests of honor for the award function.

## Best Indian Fisheries Scientist Award: 2011



Awardees; Dr. Basanta Kumar Das, CIFA, Bhubaneswar;  
Certificate of Appreciation: Dr. MukundaGoswami, NBFGR, Lucknow

## Best MFSc and PhD Thesis Award

Dr. Karunasagar Best Post-Graduate Thesis (Ph.D. – Indian category) Award for the year 2011

Dr Shailesh Saurabh for his thesis – Immune Responses of Indian Major Carp, *Labeo rohita* (Hamilton) to freshwater Fish Louse, *Argulus* Infestation from Central Institute of Fisheries Education, Mumbai. (2009)

Dr. V.G. Jhingran Best Post-Graduate Overseas Thesis (Ph. D – Overseas category) Award for the year 2011

Dr Vikas Kumar for his thesis “Detoxification of Jatrophacurcas seed meal and protein concentrate and their utilization in fish nutrition”, University of HohenheimGermany (2011)

Dr. N. R. Menon Best Post-Graduate Thesis (M.F.Sc. – Category) Award for the year 2011

Mr Devivaraprasad Reddy for his MFSc thesis “Effect of processing treatments on the survival of White Spot Syndrome Virus (WSSV) in cultured shrimp” Tamil Nadu Veterinary and Animal Sciences University, Thoothukudi- 628 008, (2010)



## Plenary Session

The plenary session was held on 23.12.2011 at 11.30 a.m. at the IMAGE Auditorium. Dr. P. Ravichandran, Co-convenor, 9<sup>th</sup> IFF, welcomed the gathering. The session was presided over by Dr. G. SydaRao, Director, CMFRI. Dr. P. Krishnaiah IAS, Chief Executive, NFDB was the Chief Guest. A panel of three experts – Dr. PSBR James, Dr. S D Tripathi and Dr. K A Narasimham chaired the discussions that followed the presentation of recommendation by Dr. E V Radhakrishnan, CMFRI. Awards for Best posters were presented during the plenary session. A total of 16 awards were given.

Four Young Scientists received awards in the Competition category.

# International Symposium on Large Marine Eco-System

International Symposium on Ecosystem Approach to Fisheries in the Bay of Bengal Large Marine Eco-system conducted by BOBLME on December 21, 2011 as parallel event.

Keynote address of symposium was delivered by Dr Kenneth Sherman, NOAA, USA. Other speakers included Dr Chris O'Brien (BOBLME), Dr Rudolph Hermes (BOBLME), Dr J Samarakoon (Sri Lanka), Dr V V Sugunan (BOBLME), Dr Sunil K. Mohamed (CMFRI) and Dr P U Zacharia (CMFRI).



Dr. Chris O'Brien welcomed by Dr. G. Syda Rao



Dr. S. N. Dwivedi & Dr. G. Syda Rao presenting memento to Dr. Kenneth Sherman



Dr. Y. S. Yadava, Director, BOBP speaking



Dr. Michael J. O'Toole



Dr. Chris O'Brien



Dr. S. N. Dwivedi

## Recommendations of the 9<sup>th</sup> IFF

- The Ninth Indian Fisheries Forum strongly recommends that a separate Central Ministry for Fisheries is to be established.
- There is a need for bringing fishery resources data on a spatio-temporal platform.
- Ecosystem based fisheries management should be the basis for management of fish stocks for continued sustainability.
- Fisheries Management and Governance at National and State level needs to be reoriented by sufficient attention to sustainable livelihood, gender issues, ecosystem approach and co-management.
- Diversification of systems and species is one of the important requirements in sustainable aquaculture production. The need is for developing holistic technological packages with social and environmental considerations.
- To fill the technological gaps in the expansion of aquaculture and mariculture, special focus should be given to biotechnological applications in the areas of nutrition, health and selective breeding.
- Special focus needs to be given in marine-bioprospecting to develop novel biomolecules and neutraceuticals.
- Aquaculture needs to enter the phase of sustainable intensification for improving production, productivity and economic viability.
- Considering the high potential for fish farming in the country with recent breakthrough in breeding and seed production of commercially important fishes such as sea bass, cobia and pompano, bio-secure brood stock banks have to be established with the objective of supplying quality brooders to hatcheries and thereby increase farmed production of marine fin fishes.
- The R&D approach in fisheries needs to be sufficiently inclusive of climate change concerns.

## Best Fisheries Students of India

Name	Rank	College/ University
Sibina Mol. S	I	Kerala University of Fisheries and Ocean Studies
Vaisakh.G	II	Kerala University of Fisheries and Ocean Studies
Remya L.	III	Kerala University of Fisheries and Ocean Studies
HuiremBharati	IV	College of Fisheries, Central Agricultural University, Tripura
SaloniShivam	V	Fisheries College and Research Centre, Tuticorin, Tamil Nadu University of Veterinary and Animal Sciences



- Cooperative institutions existing in fisheries sector including inland fisheries should be re-oriented and strengthened as co-management institutions, which could promote scientifically informed sustainable fisheries governance in the country.
- Fisheries research extension linkage mechanisms should be strengthened by creating adequate qualified human resource capital.
- A National Campaign on Responsible Fisheries should be launched with the support of NGO's, Fishermen associations and other agencies.
- For improving product competitiveness in aquaculture and mariculture products in global markets, the components of food safety, traceability and social equity needs to be proactively addressed.
- Considering the recent wide fluctuations in tuna landings in Lakshadweep islands and the serious consequences it will have on the livelihood status of the islanders, a regional scientific investigations on oceanographic and climatic parameters involving Sri Lanka, Maldives and India needs to be immediately initiated.
- Vessel based marine fisheries research should be encouraged. Incentives to participating scientists and technical personnel in scientific cruises should be provided.
- CMFRI should take up the responsibility of collection of time series data on marine fish landings.
- To promote open sea cage farming and coastal aquaculture, appropriate water leasing policies may be formulated by the respective maritime States.
- Prime importance should be given for harnessing the emerging and new domestic market for fish and fishery products; Policies for domestic eco-labelling and certificate systems on par with international instruments need to be put in place.
- Qualitative fine tuning of human resource in fisheries in commensurating with the emerging National and International challenges need special attention.

## Young Scientist Awards

**Dr. A.K. Sahoo** Fish Pathology and Biotechnology Laboratory, Department of Aquaculture, College of Fisheries, Mangalore, Karnataka/presently at CIFRI, Barrackpore

“Histopathological findings on innate immune responses of *Penaeus monodon* positive for White spot disease under semi - intensive culture system”

**Mr.Devivaraprasad Reddy Alla** Fisheries College and Research Institute, TANUVAS, Thoothukkudi, Tamil Nadu

“Effect of Processing Treatments on the Survival of White Spot Syndrome Virus in Farmed Shrimps and bio - inoculation studies on WSSV”

**Mr. K.K. Prajith** School of Industrial Fisheries, Cochin University of Science and Technology, Cochin, Kerala

“Application of Biofloc Technology(BFT) for the sustainable aquaculture of Giant freshwater prawn, *Macrobrachium rosenbergii*: Effect on water quality and production”

**Mr.Sushil Kumar Garnayak** Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha

“Characterization of 17- $\beta$ -estradiol induced vitellogenin gene and protein in Asian catfish, *Clarias batrachus*”



## 9<sup>th</sup> IFF Exhibition participants

- National Bureau of Fish Genetic Resources
- Directorate of Coldwater Fisheries Research
- Central Institute of Freshwater Aquaculture
- Central Inland Fisheries Research Institute
- Central Institute of Fisheries Education
- Central Institute of Fisheries Technology
- Central Institute of Brackishwater Aquaculture
- Central Agricultural Research Institute
- National Fisheries Development Board
- Plant Network
- Aquastar
- Lark Innovative Teknowledge
- Aqua World
- Matsyafed
- Central Marine Fisheries Research Institute
- Lucknow
- Bhimtal
- Bhubaneshwar
- Barrackpore
- Mumbai
- Kochi
- Chennai
- Port Blair
- Hyderabad
- Chennai
- Chennai
- Chennai
- Chennai
- Thiruvananthapuram
- Kochi



Dr. K. Gopakumar inaugurating the Exhibition



Dr. K. Gopakumar visiting the stall



CMFRI Stall



A view of the Exhibition

## Cultural Programme

A Cultural programme was held on 20.12.2011 at 6.00 p.m. The programme was arranged by the Madras Craft Foundation of Dakshina Chitra. The programme included Tamil Nadu Vathiyam and Folk dances by Thanigai Raju & Troupe,

Bharatanatyam recital by Smt. Radhika Shurajit & her disciples and Odissi recital by Smt. Sanhita Basu Ghosh & her disciples.

The Cultural programme was followed by dinner sponsored by the 9<sup>th</sup> IFF, Mr. Rajan (Nellore Hatcheries, Nellore) and Mr. M. Sudhakaran (Aqua Life System, Ongole).



Folk dances



## 9<sup>th</sup> Indian Fisheries Forum

Total number of authors & co authors  
from 22 Indian States & 4 Union Territories - 1349

List of organizations:

• ICAR Institutes	-	8
• Government organizations other than ICAR	-	24
• Universities (including SAUs) and IITs	-	53
• Colleges	-	25
• NGOs and private organizations	-	5
• International organizations	-	18