

## Contents

From Director's Desk	1
Research Updates	2
Publications	5
Trainings	6
Mass Awareness	7
Exhibition	8
Award/Honours	9
Ph.D. Thesis	9
Superannuations	9
Promotions	10
New Appointments	10
Transfers	11
Meetings & Events	11
Hindi Section	14

## From Director's Desk

I am pleased by the work done by CIFRI scientists in diverse inland water regimes. CIFRI unveiled the role of microbes in arsenic pollution through simulation experiments. It would help in minimizing arsenic hazards in future. The cage culture experiments in Assam standardized the stocking density of *Labeo rohita* fry for better management of scarce fish seed resource for stocking in the wetlands and other inland waters. The hydro-biological exploration of Sabarmati estuarine system to assess eco-health inferred the system as stressful environment. The river Yamuna was considered as the abode of Indian major carps, but observations on fish landings in the river showed dominance of exotics, particularly, Tilapia. It is one of the major concerns for fisheries in the river. CIFRI documented the success of scientific fisheries management practices in Suvarnavathy reservoir in Karnataka. The practices led to increase in fish yield of the reservoir from 116 to 197 kg/ha in three years. CIFRI is conducting experiments to utilize dried water hyacinth in fish meal. It will on one hand solve the problem of weed infestation in beels and on the other provide low cost raw materials for fish meals. A participatory exercise to identify the role of women in promoting gender equality for sustainable inland fisheries development revealed significant role of women in most of the income generating fisheries activities.



Institute scientists have published eleven research papers, number of book chapters, sixteen popular articles, two training manual and twenty two abstracts during the period. CIFRI published its first annual magazine in Hindi "Neelanjali" containing wide variety of interesting articles, poems, experiences, etc. of people from different walks of life.

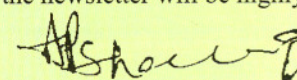
The institute provided floor for conferences/workshops including 21<sup>st</sup> All India Zoology Congress, Caring wetlands and conservation of riverine fisheries and *Matsya Sanrakshyan Evam Samvardhan Hetu Matsya Ankrhon*. The important meetings held at institute were: Study Group of Parliament Standing Committee on Agriculture, XX ICAR Regional Committee-II, Institute Management Committee, Outreach Project, CIFRI XII Plan, etc. All these events were grand success and highly appreciated by the participants. Apart from these events, CIFRI celebrated National Fish Farmers Day, Independence Day, Communal Harmony Week, ICAR Foundation Day, and Hindi Pakhwara with great vigour and enthusiasm.

The achievements of technical and scientific staff included many scientific awards from organisations of repute including "ICAR Award for Outstanding Team Research in Social Sciences".

Many institute staff members were promoted or transferred across institute centers and headquarters. Three new scientists and other staff members have joined CIFRI. We cordially welcome them and wish them good luck. A number of scientific and administrative staff superannuated during this period. CIFRI wishes all of them a happy, active and healthy retired life.

Any suggestions from our respected readers for further improving the newsletter will be highly appreciated.

Barrackpore  
June, 2011



Prof. A. P. Sharma

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## Research Updates

### The dominance of exotic carps continued in River Yamuna

The river Yamuna is known as original abode of Indian major carps, but observations on fish landings in the river showed dominance of exotic tilapia, *Oreochromis niloticus* at Etawah, Agra and Mathura, while *Labeo boggut* in Delhi. This was followed by common carp (*Cyprinus carpio communis*), catfishes (*Wallago attu*, *Sperata seenghala*, *Sperata aor*, *Clupisoma garua*, *Eutropiichthys vacha*) and the miscellaneous groups (*Channa marulius*, *C. striatus*, *C. punctatus*, *Mastacembalus armatus*, etc.) The fish landing at Allahabad at 94.28 t during July-December also showed dominance of exotic fishes at 43.36% (*Cyprinus carpio communis* and *Oreochromis niloticus*) followed by other miscellaneous groups at 22.43% (chitals, murels, eels, shrimps, etc.). Indian major carps at 19.03% (*Labeo rohita*, *Catla catla*, *Cirrhinus mrigala*, *Labeo calbasu*) and catfishes at 15.18% (*Sperata seenghala*, *Sperata aor* and *Wallago attu*).

**K. D. Joshi, R. N. Seth, R. K. Tyagi, A. Alam and D. Jha**

### The fish breeding grounds were identified in rivers Ken and Betwa

The rivers Ken and Betwa harbour more than sixty fish species. The major fishery of river Ken comprised murels (*Ophiocephalus marulius*), mahseer (*Tor tor*), catfishes (*Sperata seenghala*, *Rita rita*), chital (*Chitala chitala*) and carps. In river Betwa, it consisted of carps (*Labeo calbasu*), catfishes (*Sperata aor*, *Sperata seenghala*), murels, eels and other miscellaneous species. Both the rivers are abode for certain threatened fish species (Ken four endangered and nine vulnerable and Betwa five endangered and twelve vulnerable species). The availability of brooders and juveniles at Daudhan, Gangau, Pipartola and Bhuragad in river Ken and at Jharad Ghat and Hamirpur in river Betwa indicated spawning activities of the major fish species. The side pools and channels of the rivers at these sites have i) gentle flow and ii) substratum composed of gravel, sand and silt. It provided suitable spawning sites to the Indian major and minor carps. Further, the gentle river flow and sandy substratum particularly on mid and downstream stretches provided ideal nesting grounds and sites for catfish breeding.

**K. D. Joshi and A. Alam**

### Sabarmati estuary recognized as a stressed environment for fisheries

Sabarmati estuarine system has been explored from eco-health

perspective. The hydro-biological attributes inferred a stressed environment with critically low to nil dissolve oxygen (DO) and high free CO<sub>2</sub> levels in stretch from Rasikpura to Anandpura. The plankton abundance exhibited qualitative horizontal distribution in lower estuarine zone with higher blue-greens abundance as compared to upper sites where *Bacillariophyceae* was prominent. The qualitative spectrum of macro-benthic population also revealed system as highly stressed as dipterans as major group represented mainly by *Tendipes tentans*. Occurrence of *Tubifera* sp. corroborated the above inference. Incidence of *Zoogloea ramigera*, a bio-indicator of water contaminated with sewage and industrial effluents further confirmed the environmental degradation at certain sites of lower stretch. The computed bio-diversity indices portrayed varying degree of environmental degradation at different sites. Primary production observations also confirmed that Sabarmati estuary is environmentally degraded with prevalence of heterotrophic condition.

**S. N. Singh, K. Chandra and A. K. Prusty**

### Optimization of stocking density in cage culture

The cage culture experiments at Charan beel, Morigaon, Assam standardized the stocking density of *Labeo rohita* fry. A battery of ten cages (individual cage dimensions 2 x 2 x 2 m and effective water volume 6 m<sup>3</sup>) were stocked with *Labeo rohita* fry (av. length 4.0±0.04 cm, av. wt. 1.05±0.03 g) at five different stocking densities, 50 (SD1), 100 (SD2), 150 (SD3), 200 (SD4), and 250 (SD5), fry/m<sup>3</sup> with two replicates each. Fishes were fed twice daily with a formulated mashed feed having 33.16% CP for two months. Different stocking densities significantly ( $p<0.05$ ) affected growth reared fish. The final weight (4.71 g), weight gain percent (WG, 348.15%) and specific growth rate (SGR, 2.50) were the highest in the lowest stocking density of 50 fry per m<sup>3</sup>. These responses





## Research Updates

remained unaffected ( $p>0.05$ ) at 100 to 200, but at 250 there was significant reduction in growth. Feed efficiencies such as feed conversion ratio (FCR) and protein efficiency ratio (PER) were adversely affected with increasing stocking densities. The physico-chemical parameters of sediment were not affected by stocking density. Tissue biochemical components (except for total carbohydrate) varied significantly ( $p<0.05$ ) between stocking densities. Tissue moisture and crude protein contents were higher in higher stocking densities. Maximum values of tissue lipid and ash were obtained at 50 fry/m<sup>3</sup>. Stocking density had profound effect on feed conversion ratio in reared fish. Because the WG%, SGR and survival were statistically similar in SD2, SD3 and SD4, economic viability may be considered in proposing SD4 (200 fry/m<sup>3</sup>) as the optimal stocking density in cages for seasonally open beels of Assam having similar ecological characteristics like that of Charan beel.

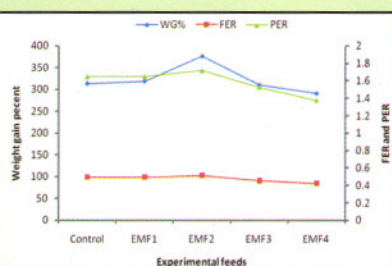
**B. K. Bhattacharjya, V. Kolekar, D. Debnath, S. Yengkokpam, K. K. Sharma, D. Gagoi and A. Kakati**

### Incorporation of dried water hyacinth meal in *Labeo rohita* diet reared in cages in Assam wetlands

The effect of water hyacinth (*Eichhornia crassipes*) meal-based feed (EM) on growth and biochemical composition of *Labeo rohita* fry reared in net cages was estimated in Charan beel, Morigaon district, Assam. A battery of ten cages (individual cage dimension 2 x 2 x 2 m) was constructed using locally available materials.



Cages set up in Charan beel of Assam used for conducting the feeding trials



Weight gain (%), FER and PER of *L. rohita* fry reared in cages

The cages were divided into five treatments with two replicates each and stocked with 300 fry (4.0±0.04 cm length, 1.05±0.03 g weight) in each cage. Five feeds with 30% crude protein level were formulated using *Eichhornia* meal at 0 (control), 5, 10, 15 and 20% of the diet proportionately replacing quantity of rice bran. The experimental duration for the feeding trial was two months. The weight gain (WG) percent (376.81%) was maximized at 10% EM inclusion level, but WG% at 20% EM inclusion level was similar to that of the control group. Carcass lipid content in fry was much higher (almost 4-5 times) in the fishes at the end of the experiment compared to the initial lipid content. Considering the

maximum growth response of *L. rohita* as the main criteria, 10% EM could be utilized in the feeds. Increase in dietary EM supplementation levels beyond 10% has to be done based on cost-benefit analysis of EM supplementation versus growth and feed efficiencies.

**D. Debnath, B. K. Bhattacharjya, V. Kolekar, S. Yengkokpam, K. K. Sharma, D. Gagoi and A. Kakati**

### Use of sediment enzymes for evaluation of impact of river connectivity on wetland health

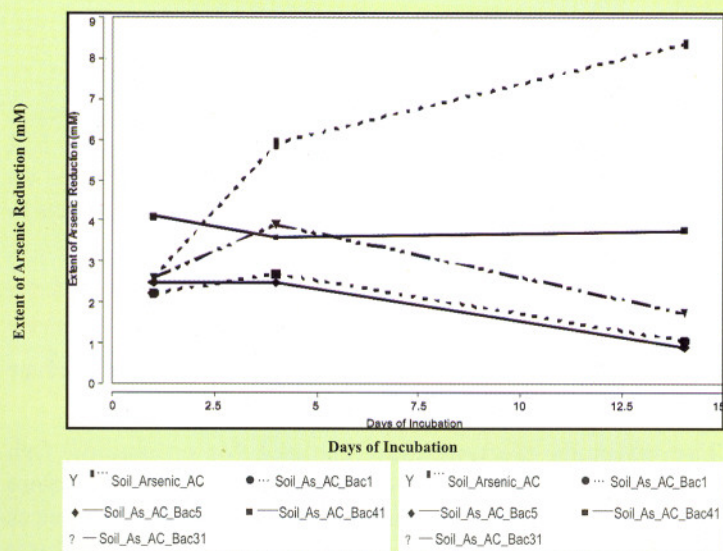
The wetlands are potential resource for enhancing fish production and livelihoods for fisher community. These are facing serious threats from massive anthropogenic interferences like modifications in the catchments, siltation, habitat degradation, macrophytes infestations, loss of river connectivity, etc. As a result, a few are heading towards succession and extinction. Connection/flooding from parent rivers provides suitable wetland environment for growth and survival of natural fishes and fish food organisms. Research was conducted to unravel their impact on nutrient cycling and subsequent effect on primary production, fish food organism, fish species spectrum through sediment enzymes in two wetlands Chhari Ganga (with round the year connectivity) and Bhomra (with seasonal connectivity) in West Bengal. Samplings were planned for three seasons to characterize water level fluctuations with connectivity and sediment enzyme and associated parameters. Analysis of sample collected during monsoon revealed distinctly more alkaline, acid phosphatase, dehydrogenase and α glucosidase activity in sediments of seasonally connected wetland than perennially connected wetland. Overall microbial activity, phosphorous cycling potential and carbon cycling enzymes were shown to be higher in closed wetland than perennially connected wetland. The wetlands also showed distinct variation in sediment conductivity and organic matter content with higher value in closed than open wetland. The investigation concluded that sediment enzymes may be used to assess the impact of river connectivity on wetland health.

**Md. Aftabuddin, M. A. Hassan and A. K. Das**

### Unveiling microbial roles in arsenic pollution

Millions of people in South-east Asia, including parts of India, are suffering from skin lesion, cancer and several other health hazards from arsenic poisoning. Contamination of groundwater with geogenic arsenic is the main cause of widespread arsenic poisoning. The Ganga-Brahmaputra river basin soil is geologically rich in arsenic and microbial arsenic reduction has been suggested as the principal mechanism of release of this soil-bound arsenic and, thereby, mobilization in to the





aquifer. However, no such microbes have been identified so far from the arsenic affected zones. CIFRI, through simulation experiment have confirmed that natural microflora present in aquatic sediment in arsenic contaminated zone profusely reduce arsenate into arsenite under partial or true anaerobic conditions using simple short chain carbon compounds as carbon and energy source. A few of these microbes have been isolated in pure culture having prominent arsenic reduction ability in sediment ecosystem.

**S. K. Manna, S. Samanta, M. K. Das and B. P. Mohanty**

## Fish yield enhancement through scientific management in Suvarnavathy reservoir



The fish haul and disposal at landing centre

The fish yield was enhanced in Suvarnavathy, a small reservoir (490 ha) across the river Suvarnavathy in Chamarajanagar District of Karnataka by adopting the scientific practices for fisheries management. The investigations on ecological characteristics of reservoir revealed medium hardness (mean alkalinity: 92.8 mg/l), moderately rich in electrolytes (mean conductivity: 140.9  $\mu$ S/cm) and low in transparency (mean Secchi depth: 90 cm) clinograde distribution of oxygen, high chlorophyll 'a' values (64.5  $\mu$ g/l) and high primary production rates (2.5 g C/m<sup>2</sup>/d). The Carlson Trophic State Indices concluded that the reservoir is in eutrophic condition. CIFRI recommended for - i) stocking of catla, rohu and mrigal at stocking density of 300-500 fingerlings with size 10

cm and above; ii) harvesting carps of only 1.0 kg and above as against the present harvesting of even less than 0.5 kg; iii) reducing number of fishing holidays which are as high of 46.6% of the year and iv) decrease in stocking density of common carp and grass carp. These recommendations increased the fish yield of the reservoir to 197 kg/ha in 2009-10 from 116 kg/ha in 2007-08 and 172 kg/ha in 2008-09. Sustained stocking resulted in increase in yield.

The stocked Indian major carps contributed 95.5% to the total catches with the rest mainly by tilapia. All the three species of major carps, catla, rohu and mrigal exhibited good growth. CPUE also increased from 14.5 kg in 2007-08 to 15.8 kg in 2009-10. The estimated increase in gross income to the society was to the tune of Rs. 11,72,000/- in 2009-10 over 2007-08 and to the individual fisher at Rs. 22,000/-.

**D. S. Krishna Rao, M. Karthikeyan, P. K. Katiha, M. E. Vijayakumar and S. K. Sadhukhan**

## CIFRI assessed the role of women in inland fisheries activities in Hooghly estuary



PRA activity in stretches of Hooghly estuary

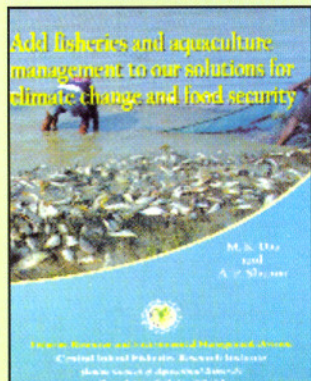
CIFRI conducted a participatory exercise to identify the role of women to promote gender equity/equality for sustainable inland fisheries development. The study covered four sites, namely, Nabadwip and Kalna in upper stretch and Diamond Harbour and Frezarganj in lower stretch of Hooghly estuary. The participation of women in upper stretch was comparatively low than in lower stretch, where women were actively involved in fish/prawn seed collection and selling; and fish grading, vending, drying and processing. They were also involved in other income generating activities, like agriculture and daily labour. The analysis of their level of participation in fisheries and other income generating activities indicated medium level (16.04-19.64) for 62%, high (>19.64) for 16% and low (<16.04) for the remaining women. This active participation of women led to socio-economic upliftment of their families.

**A. Roy, S. Saha and S. Majumdar**



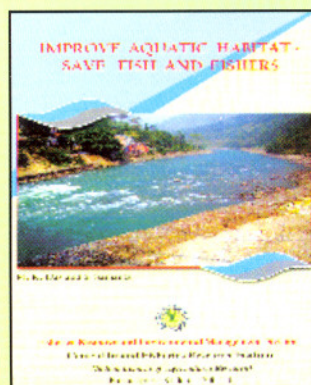
## Publications

### *Add Fisheries and aquaculture management to our solutions for climate change and food security*



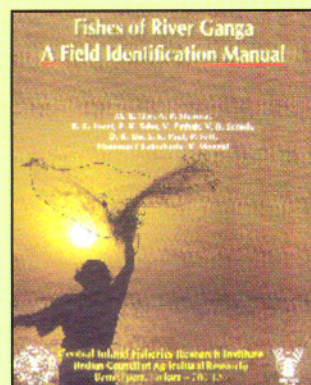
Fisheries and aquaculture depend heavily on climate, it is therefore imperative to think of the vulnerability and adaptation strategies of inland fisheries in response to climate change. The bulletin based on the research conducted by CIFRI elaborates on the diverse climate change for inland fisheries, their potential impacts and suggests the adaptation options available for inland fisheries.

### *Improve Aquatic Habitat – Save Fish and Fisheries*



Aquatic environment degradation due to anthropogenic activities and its consequent impact on ecological integrity is a topical environmental concern in India. Based on the research work conducted at CIFRI, the authors of the bulletin firstly detail the sources of degradation of the inland aquatic resources, then elucidate its impact on inland fisheries, the livelihood and food security concerns of fishers and stakeholders. Moreover, the bulletin concludes by mentioning the policies, laws and institutions overning aquatic resources.

### *Fishes of river Ganga – A field identification manual*



The river Ganga is the abode for a large number of economically important and other diverse small fish species contributing to the dietary and economic requirement of people of the Gangetic plains. In the bulletin, authors documented the presently available fish species, and morphological characteristics along with their common names for taxonomic identification. It is

expected that the bulletin would fulfill the need for a quick identification guide for teachers, students, extension personnel and aquaculturists in their field work.

### *Souvenir of 21<sup>st</sup> All India Congress of Zoology*

CIFRI published a souvenir on the occasion of 21<sup>st</sup> All India

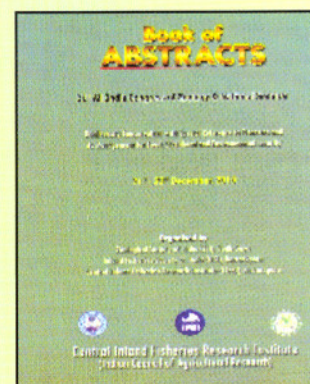
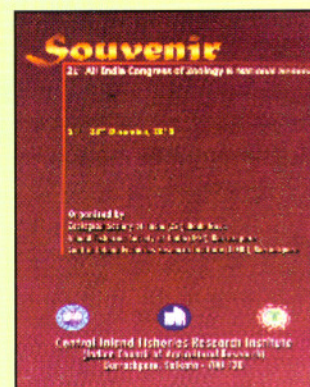
Congress of Zoology during 21-23 December, 2010. The souvenir contained of wide range of articles from fisheries to zoology, climate change, community participation and institutional arrangements in fisheries sector in India. Renowned scientists, Dr. M. S. Swaminathan and Dr. M. V. Gupta are among the contributors of articles in the souvenir.

### *Book of Abstract*

CIFRI released a Book of Abstracts of 21<sup>st</sup> All India Congress of Zoology held during 21-23 December, 2010 at CIFRI, Barrackpore. It consists of 272 abstracts from various disciplines like Applied zoology with special reference to fisheries, Environmental pollution, climate change, biodiversity conservation, biotechnology, bioinformatics and Community participation in ecosystem management. The abstract was well received and appreciated at the congress.

### *Neelanjali - First Hindi Magazine*

CIFRI published its first Annual Magazine in Hindi named "Neelanjali". The first issue for the year 2010 was released on December 21, 2010 in the inaugural function of the 21<sup>st</sup> All India Congress of Zoology. The magazine received very good response and high acclaim from different corners of the country. The magazine included a wide variety of interesting materials on fish and fisheries and other general issues. All interested persons may send their articles, poems and other suitable materials for publication in the future issues of Neelanjali.



Release of CIFRI's first annual magazine in Hindi, "Neelanjali"



Apart from the above bulletins, 11 research papers, number of book chapters, 16 popular articles, two training manual and 22 abstracts were published during the period from July-December 2010



## Trainings

Name of the Training	Date & Venue	Participants
Inland Fisheries Development	14 - 23 July, 2010 and 26 July - 4 August, 2010 at CIFRI, Barrackpore	Fifty eight fishers from Bihar
Inland Fisheries Development	11-20 August, 2010 at CIFRI, Barrackpore	Thirty fishers from Bihar
Inland Fisheries Development	15-24 September, 2010 at CIFRI, Barrackpore	Thirty one fishers from Bihar
Integrated Fish Farming	20 - 22 September, 2010 at CIFRI, Kolkata	Twelve fish farmers from Kakdwip
Inland Fisheries Development	21 September, 2010 at CIFRI, Barrackpore	Sixteen fish farmers from Gujarat
Pen culture for fish seed and table fish production in inland open water	24 September - 1 October, 2010 at CIFRI, Barrackpore	Twenty State Fisheries Officers from 10 states
Reservoir Fisheries Management	15-23 September, 2010 at CIFRI, Bangalore	Twenty State Fisheries Officers from 9 states
NFDB Sponsored training programme on Pen and cage culture of fishes in inland waters	18-27 November, 2010 at CIFRI, Barrackpore	Thirteen fishery officers from 7 states
Strengthening of database and geographical information system for fisheries sector	23-26 November, 2010 at CIFRI, Barrackpore	State fisheries officials of Punjab
Inland Fisheries Development	27-29 December, 2010 at CIFRI, Barrackpore	Eleven students from Dept. of Zoology, Kumaun University, Nainital
Inland Fisheries Development	30 December, 2010 at CIFRI, Barrackpore	Twenty two students from Dept. of Zoology, S. M. College, Uttar Pradesh



Shri. D. V. Prasad, IAS Secretary, Department of Animal Husbandry and Dairying, Government of Karnataka inaugurating the training programme at Bangalore



Dr. Katre Shakuntala with Prof. A. P. Sharma, Director CIFRI and Dr. S. P. Ayyar at the valedictory function of Reservoir Fisheries Management training programme at Bangalore



## Mass Awareness Campaigns

Name of the Programme	Date & Venue	Participants
Need for Conservation of Fish and Fish Juveniles'	27 August, 2010 at Das mile, South 24 Parganas district, West Bengal	Fifty three fisher women
Conservation and Sustainable Fish Production Enhancement	25 September, 2010 at Namkhana Block, Sundarbans	Sixty Fisher women
Fisheries Management of Reservoirs	10 October, 2010 at Mallaghatta reservoir, Karnataka	Twenty fishers
Conservation of fish and fish juveniles	14 December, 2010 at Kalisthan, Frazerganj	Seventy fisherwomen
Inland Fisheries Development on available openwater resources	28 December, 2010 at Adi Gram, Raghunathpur, Purulia	Sixty Five fish farmers
Eco-Aqua Camp Interactive meeting-cum-training programme	28-30 December 2010 at CIFRI, Guwahati	One Hundred and twenty fishermen, beel lessee and beel managers of Upper Assam region



Shri Syed R. Islam, M.D, AFDC, Guwahati; Prof. A. P. Sharma, Director, CIFRI, Barrackpore and Dr. D. Kumar, Ex-Director, CIFE, Mumbai at the Eco-Aqua Camp 2010-11 held at Japori beel, Bokakhat, Assam during December 28-30, 2010



Release of 'blue bird' as a symbol of Blue Revolution by Prof. A. P. Sharma, Director, CIFRI, Barrackpore at the Eco-Aqua Camp 2010-11



## Exhibitions

Name of the Programme	Venue	Date
Indian Fish Festival 2010	NFDB, Hyderabad,	9 - 12 July, 2010
Diversification of aqua culture through locally available feed species & Aqua fair	CIFE Centre, Kolkata	27-28 August, 2010
Science cum Technology Fair	Sodepur, Kolkata	3-7 September, 2010
Innovation Cum industrial meet of NFDB	Vishakhapatnam	8 September, 2010
Ben- Aqua 2010 & National Fish Festival	Nalban, Kolkata	1-4 October, 2010
Nature Fest & exhibition	Saltlake, Kolkata	25 October - 3 November, 2010
22 <sup>nd</sup> Congress of Parasitology	Kalyani, Kolkata	30 October - 1 November, 2010
Krishi Mela	University of Agril. Sciences, Bangalore	11-14 November, 2010
ICAR-Industry Meet	ICAR Research Complex for NEH Region, Umiam, Shillong	18-19 November, 2010
Sundarban Krishti Mela O Loko Sanskriti Utsab	Kultali, south 24 parganas	20-29 December, 2010
21 <sup>st</sup> All India Congress of Zoology	Barrackpore, Kolkata	21-23 December, 2010
Sundarban Yuva Mela	Taldi, South 24 Parganas	22-31 December, 2010
Annual Science fair	Naihati, Kolkata	24-26 December, 2010
Matsyagandha Mumbai, Maha fish festival	Mumbai	26-28 December, 2010
Joychandi Pahar Paryatan Utsav 2010-2011	Raghunathpur, Puruliya	26 December, 2010 to 1 January, 2011



Exhibition at CIFRI Centre, Guwahati



Exhibition at CIFE Centre, Salt Lake, Kolkata



## Awards/Honours

Dr. P. K. Katiha, Principal Scientist was conferred with ICAR Award for Outstanding Team Research in Social Sciences for his achievements in project "Exploring market opportunities for fisheries sector in India".

Many of the institute scientists were honoured with different awards at 21<sup>st</sup> All India Zoology Congress 2010. Their names and awards are mentioned below.

Name	Award
Prof. A. P. Sharma	Prof. J. S. Dutta Munshi Medal
Dr. Utpal Bhaumik	Prof. P. N. Pandey Medal
Dr. M. K. Das	Dr. B. S. Chauhan Medal
Dr. B. C. Jha	Dr. V. R. P. Sinha Medal
Dr. P. K. Katiha	Appreciation award
Dr. S. Samanta	Appreciation award
Dr. V. R. Suresh	Appreciation award
Dr. B. P. Mohanty	Appreciation award
Dr. K. D. Joshi	Felicitation Award
Shri D. Das, <i>et al.</i>	Best Poster Presentation award



The outstanding award team with Hon'ble DG, ICAR & Secretary DARE, Dr. S. Ayyappan



Prof. Sharma receiving Prof. J.S. Dutta Munshi Medal at 21<sup>st</sup> All India Zoology Congress 2010

## Ph.D. Thesis



Dr. Ashish Kumar Prusty, Scientist at Vadodara Centre was conferred with Ph. D. degree at Central Institute of Fisheries Education, Mumbai on 07.10.2010 for his doctoral research "Growth and immune response of fenvalerate challenged *Labeo rohita* (Ham) fingerlings pre-exposed to Vitamin C and E enriched diet.



## Superannuation

Name & Designation	Place of Last Posting	Date of Superannuation
Shri Chhotey Lal, Sr. Clerk	CIFRI, Allahabad	31. 07. 2010
Shri M. V. Krishnan, Driver	CIFRI, Bangalore	31. 08. 2010
Shri D. Borgoyary, Driver	CIFRI, Barrackpore	31. 09. 2010
Dr. P. K. Saha, Principal Scientist	CIFRI, Barrackpore	31. 10. 2010
Shri Lalita Prasad, T-1	CIFRI, Allahabad	31. 10. 2010
Shri M. P. Bind, Support Skilled Staff	CIFRI, Barrackpore	31. 10. 2010
Shri U. K. Ghosh, Private Secretary	CIFRI, Barrackpore	31. 11. 2010
Shri Angshuman Hajra, Scientist(SG)	CIFRI, Barrackpore	31. 12. 2010
Shri P. C. Bez, Support Skilled Staff	CIFRI, Guwahati	31. 12. 2010



## Promotions

Name	Promoted to	With effect from
Dr. Srikanta Samanta	Principal Scientist	15.05.2008
Dr. M. A. Hassan	Principal Scientist	21.07.2008
Shri Alok Sarkar	T-(7-8)	01.01.2005
Shri Fatik Manna	T-(7-8)	01.01.2007
Shri C. N. Mukherjee	T-(7-8)	03.02.2008
Mrs. Sucheta Majumder	T-(7-8)	01.07.2009
Dr.(Mrs) Kalpana Srivastava	T-(7-8)	01.01.2010
Shri S. K. Srivastava	T-6	01.01.2009
Shri K. K. Sharma	T-6	01.07.2009
Shri Tapajyoti Chatterjee	T-6	01.01.2010
Shri Amoy Kr. Barui	T-4	01.01.2010
Shri S. K. Biswas	T-4	03.02.2010
Shri Pranob Gogoi	T-3	13.09.2008
Shri Manabendra Roy	T-3	23.07.2009
Shri Vijay Kumar M.E	T-3	01.11.2009
Shri U. C. Prasad	Chief Administrative Officer	18.09.2010
Smt. Anita Majumder	Assistant Administrative Officer	18.12.2010
Mrs. Anjali Niyogi	Assistant	18.12.2010
Ms. Sefali Biswas	Assistant	18.12.2010
Shri S. K. Tikadar	Assistant	20.12.2010
Smt. Vinoda Lakshmi	Private Secretary	22.12.2010

## New Appointments

Name & Designation	Place of Posting	With Effect form
Dr. Malay Naskar	CIFRI, Barrackpore	13. 07. 2010
Principal Scientist		
Shri Rajeev Lal	CIFRI, Barrackpore	01. 10. 2010
Chief Administrative Officer		
Shri Manish Kumar Singh	CIFRI, Allahabad	13. 10. 2010
Lower Division Clerk		



## Transfer

Name & Designation	From	To
Mr. Ganesh Chandra, Scientist	CIFRI, Guwahati	CIFRI, Barrackpore
Dr. Majoj B. Pandit, Scientist	CIFRI, Barrackpore	NIASM, Baramati
Shri U. C. Prasad, Chief Administrative Officer	CIFRI, Barrackpore	ICAR Research Complex Barapani
Mrs. Rina Naiya, T-6	CIFRI, Barrackpore	NIRJAFT, Kolkata

## Events and Meetings

### Parliament Standing Committee on Agriculture visited CIFRI



The Study Group of Parliament Standing Committee on Agriculture visited CIFRI on July 2, 2010. The Group was headed by Shri Basudeb Acharia, Chairman of the Committee. Prof. A. P. Sharma, Director, CIFRI, presented the progress of the institute. Dr. Madhumita Mukherjee, Additional Director, Department of Fisheries, Government of West Bengal also highlighted the salient features of the department. The committee appreciated the research and development efforts of the institute and collaborations with other R&D agencies in India and abroad.

### The institute successfully organized the XX 'ICAR Regional Committee-II Meeting' at Port Blair during the 14-16 September 2010



The XX meeting of ICAR regional committee-II was held

from 14 to 16 September, 2010 at Central Agricultural Research Institute (CARI), Port Blair. Around 500 representatives from states of Andhra Pradesh, Orissa, and West-Bengal & Andaman & Nicobar Islands participated in the meeting. Number of issues related to agriculture and allied sectors were discussed in different technical sessions. The delegates comprises senior officers from the Ministry of agriculture, Govt. of India, State Directors of Agriculture, Horticulture, Animal Husbandry & Fisheries, Govt. of Andhra, Orissa & West Bengal; Regional Heads & Officer-in-Charge from the regional stations/centers of ICAR; representative of NABARD and other Scientists.

### Institute Management Committee Meeting



The 39<sup>th</sup> Meeting of the Institute Management Committee of the CIFRI was held at Barrackpore on 29 November 2010. The meeting was attended by members from scientific, administrative and designated members from various states. A detailed discussion was held on various agenda items in the field of research, extension & overall management aspect of the Institute. The members expressed high appreciation for the scientific personnel for winning National level awards / recognitions in the field of research.

### Outreach Activity Meeting

Two software, namely, Nutrient profile of Indian Fishes and Fish consumption and Human Health were released in the meeting of Outreach Activity on "Demonstration Workshop on software





Package for Nutrient Profile data Compilation and Clinical-epidemiological Survey". Dr.S.D. Singh, ADG (Inland Fisheries), ICAR and Prof A. P. Sharma, Director CIFRI., Dr. V. K. Sharma, President, ARS Forum were present at the occasion. The developed softwares will be used by CIFRI and other consortium partners Institutes viz, CIFT, CIFA, CIBA, CMFRI, CIFE and DCFR for Data compilation.

## National Fish Farmers Day



National Fish Farmers Day was organised on 10 July, 2010. Three progressive fish farmers, one from Bihar and two from West Bengal were felicitated at the occasion.

## CIFRI celebrated ICAR Foundation Day



CIFRI has celebrated ICAR Foundation Day on July 16, 2010. Dr. P. Das, Former Director of National Bureau of Fish Genetic Resources and Dr. Apurba Ghosh Former Acting Director, CIFRI

addressed the CIFRI staff. One interactive session was also organised to highlight the importance of fisheries research in development and improve the standard of research in inland fisheries.

## CIFRI Celebrated 'Hindi Pakhwara'



The Institute observed 'Hindi Pakhwara' during the 14-28th September, 2010, with several programs for the staff members and their family members to promote Hindi language. On this occasion, different competitions like writing essay and notes in Hindi and translation of Administrative/technical/Scientific terminology etc., were organized and the winners were awarded with prizes. During the fortnight, suggestions have been made to promote use of Hindi.

## Workshop on "Caring Wetlands & Conservation of Riverine Fisheries" held during 2<sup>nd</sup> October, 2010 at Meen Bhawan, Salt Lake, by CIFRI, Barrackpore



The Seminar on "Caring Wetlands and Conservation of Riverine Fisheries" was organized on 2<sup>nd</sup> October 2010 jointly by Central Inland Fisheries Research Institute, Barrackpore, Department of Fisheries, Government of West Bengal and Inland Fisheries Society of India, Barrackpore at Meen Bhawan, Salt Lake City, Kolkata. About 100 delegates participated in the seminar. The seminar provided good platform for experts on fisheries and nature conservation to exchange their experiences and to come out with solutions for conservation of wetland and riverine fisheries for sustainable growth.



Dr. B. Meenakumari, DDG (Fisheries) visited CIFRI



Dr. B. Meenakumari, Deputy Director General (Fishery), ICAR, New Delhi and Dr. S. D. Singh, Assistant Director General (Inland Fishery), ICAR, New Delhi visited the Institute during 13-14 December, 2010. Their visit was primarily to discuss the XII Five Year plan document of the institute and interact with the institute staff. Both of them gave many suggestions on future research and development of the institute.

## Communal Harmony Week



Communal harmony week was observed every year from November 19 to 25 in India. CIFRI also commemorated Communal Harmony week on 23<sup>rd</sup> November 2010. Dr. Dhruvajyoti De, Additional Superintendent of Police, Barrackpore, Government of West Bengal shared his experiences to create awareness about communal harmony in the country.

## 21<sup>st</sup> All India Congress of Zoology

The 21<sup>st</sup> All India Congress of Zoology and the National Seminar on 'Biodiversity Conservation with Special Reference to Fisheries Management for Food, Livelihood and Environmental Security, and the 2<sup>nd</sup> 'National Helminthological Congress', were held at the Central Inland Fisheries Research Institute (ICAR), Barrackpore during the 21 to 23 December 2010. The Congress was jointly organized by the Zoological Society of India, the Inland Fisheries Society of India and the Central Inland Fisheries Research Institute. Over 400 delegates from all over the country participated in the congress. The technical sessions were held based on four major themes. These themes were 1) Applied Zoology with Special Reference to Aquaculture and Fisheries, 2) Environmental pollution, Climate Change and Biodiversity Conservation, 3) Genetics, Biotechnology and Bioinformatics and 4) Community Participation in Ecosystem Management. The congress recommended for : working out the water



requirement for fish and other aquatic organisms while planning allocation, investigations on water flows, declining fish catch and increasing presence of exotic fishes in our rivers, eutrophication of natural water bodies, restoration of ponds and small reservoirs with people's participation to enhance fish production, formulation and implementation of Code of Conduct of Responsible Fisheries, Adoption of ecosystem based fisheries management approach with necessary policy and legislative support, detailed studies on impact of climate change on inland fisheries, etc.

## CIFRI regional centre, Allahabad organized a workshop on "Matsya Sanrakshyan Evam Samvardhan Hetu Matsya Ankrhon Ka Mahatva"



Allahabad Regional Centre organized a workshop entitled "Matsya Sanrakshyan Evam Samvardhan Hetu Matsya Ankrhon Ka Mahatva" (in Hindi) on 21<sup>st</sup> November 2010, on the occasion of World Fisheries Day. More than 120 participants including fish traders; fishers; progressive fish farmers; university teachers; representatives of the state fisheries department, National Academy of Sciences, Botanical Survey of India; NGO's and students were present in the occasion. Prof. A. P. Sharma, Director CIFRI showed his concern about the grim situation of riverine fisheries in general and Ganga fishery in particular on the occasion. The experts and traders delivered talks and interacted during the programme.