



# CMFRI NEWSLETTER

ISSN: No.0972-386



No. 98

April - June 2003

## BRIDGING THE GAP BETWEEN INFORMATION GENERATION AND DISSEMINATION



Dr. Mangala Rai, Secretary, DARE and Director-General, ICAR inaugurating the Agricultural Technology Information Centre at CMFRI, Cochin

The Agricultural Technology Information Centre (ATIC) of CMFRI established under the National Agricultural Technology Project in the year 2000 provides the vital link between technology developers and users. The ATIC is a single window delivery system for the products and services from the Institute to fisherfolk and other interest groups and provides a platform for feed back from the users to the Institute.

**Products** supplied through ATIC include shrimp feed, duplex PCR diagnostic kit for detection of white spot virus, marine cultured pearls, algal inoculum, zooplankton samples, seaweed products such as agar agar, jelly, pickles, edible oyster meat, mussel meat and value added fishery products. **Diagnostic services** are offered for microbiological analysis, fish disease diagnosis, environmental monitoring, soil testing, water and feed quality analyses. **Information services** are offered through exhibits, audio visual aids and literature on the following technologies developed by the Institute: shrimp/crab/finfish farming, shrimp/crab/ornamental fish feed, mussel culture, crab culture/crab fattening, fish diseases, pearl culture, oyster culture, small scale shrimp hatchery, artificial fish habitats, eco-friendly shrimp farming, clam culture,

aquarium fish keeping, marine fisheries management and seaweed culture.

The ATIC located in the main campus of the Institute at Cochin was inaugurated by Dr. Mangala Rai, Secretary, DARE and Director-General, ICAR on 26<sup>th</sup> April. The infrastructure facilities at the Centre include a well-equipped **water analysis lab** for carrying out soil and water testing, a sound proof **audio visual laboratory**, a well-furnished **auditorium** for organising interactive sessions, a **library** to provide publications of the Institute to the visiting farmers and a **museum** where charts, mock-ups and models depicting different technologies are displayed. The **sales counter** at the Centre helps fishermen and other end users to directly get the products available at the Centre. The Honourable Director-General also launched the ATIC website [www.aticcmfri.org](http://www.aticcmfri.org) which can be accessed for information on package of practices and post-harvest technologies developed and schedule of training programmes organised by the Institute. The facilities available at the Centre will be of immense help to the end users of different technologies including fishermen, farmers and students.

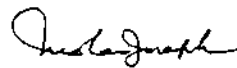
## Editor's Desk.....

I have come to realize painfully that the much appreciated and encouraged support in the past for research in marine capture fisheries is no longer forthcoming apparently due to poor understanding of its importance, value and application. Nothing is more serious and damaging to the sector than not realizing the role of and scope for an informed marine fisheries management regime. William Fox (2002) has rightly pointed out that "Understanding the dynamics of large scale ocean ecosystem sufficiently to offer effective scientific advice on how to manage the human activities that affect them is necessarily a large, complex and expensive undertaking. However, such an undertaking can have great rewards in pointing to necessary modifications to human activities with billions of dollars of return per annum on a long term basis. Since we have overcapacity in many of our fisheries, the potential economic benefits from our fisheries are greater than the differences between potential and recent yields, not to mention the social and political benefits of starving fishery management's turmoil-making machine". He rightfully feels that science can reduce risks.

If India has to sustain her marine fisheries, a proactive and informed management regime must fall in to place. Unfortunately this is not happening now. Our priorities in 'management' are confined to subsidies, incentives and bans. Subsidies are necessary; 'good subsidies' like those for development, research etc. But if 'bad subsidies' like subsidized diesel for operating a banned gear or subsidy for purchase of

a destructive gear gain priority while information (data) takes the back bench, then our decisions will have nothing to offer to posterity.

Capture fisheries management has to be proactive, continuous and ever changing. This must be well understood by planners if our fisheries are to survive and our fishers are not to get marginalized. We know that the Indian marine fisheries is changing over from an open access to a regulated regime and the need of the hour is to formulate such management regimes which are proactive, informed and participative. There is need for continued and focused monitoring of the marine fishery resources and research in the behaviour and dynamics of the species groups. Marine fisheries is nothing but natural resource management and therefore not comparable to fish culture where there are inputs from man and production can be managed and enhanced through control of inputs. A resource which is dynamic, migratory, subjected to predation, vagaries of nature and various types of pressures from fishing and other anthropogenic activities deserves well focused and careful research attention. I hope and wish that the CMFRI will be able to continue its proactive role as a regulated marine fishery scenario emerges in the country.



Mohan Joseph Modayil

## NEWS FROM THE RESEARCH FRONT

### National level monitoring of heavy metals

Efforts are on to project the national scenario of heavy metal pollution in the inshore waters of India. A three tier monitoring of heavy metal levels in water, sediment and marine organisms is being carried out from nine centres along peninsular India by the Fishery Environment Management Division of the Institute.

### Consultancy provided to monitor oil and pesticide contamination

Gas Chromatograph with Mass Spectrometer (GC/MS) imported from Japan (Shimadzu, model GCMS-QP5000)



Gas chromatograph operational at Mangalore R. C.

has been installed at the Mangalore Research Centre of the Institute. The GC/MS accurately identify and quantify even the lowest concentration of organic pollutants such as aromatic hydrocarbons (AHs), pesticides, polychlorinated biphenyls (PCBs) and polar organic compounds in seawater and tissue samples. With the addition of GC/MS, the Mangalore Centre of the Institute is capable of undertaking consultancy on oil and pesticide pollution.

### Bioenriched ornamental fish feed marketed

A specially formulated 'Bioenriched ornamental fish feed' developed by CMFRI has been released and is now marketed through the Agriculture Technology Information Centre at the Institute Headquarters. The feed is manufactured using locally available ingredients with twin screw extruder to a perfect finish. Bioenrichment is done using food grade bacteria by the process of solid state fermentation. The process enhances bioavailability of nutrients as well as growth and survival of the fish. Feed sizes ranging from 1 to 3 mm are produced to suit the different growing stages and species.

### National referral laboratory for microbial diseases established

A new referral lab for microbial diseases of marine finfish and shellfish

has been established in the Physiology, Nutrition and Pathology Division of the Institute with funding support from NATP Competitive Grant Programme. The lab has facilities for histopathological studies, immunodiagnosis, electron microscopic and molecular diagnosis. It will maintain stock cultures of pathogenic microbes and will be a depository of slides, photographs and other materials concerning coastal aquaculture related disease conditions.

### Innovative mussel farming in shrimp ponds

Under the technical guidance of the Molluscan Fisheries Division of CMFRI, a farmer from Dalavapuram, Kollam initiated mussel culture on ropes in a shallow shrimp pond of 1 m depth. Due to the shallowness of the pond, experts from the Institute advised him to hang the ropes in a horizontal manner from vertical stakes. Enthused by the growth of mussels at the Institute demonstration farm in Dalavapuram, the farmer seeded 40 mussel ropes each of 3 m length and started the culture during January 2003. The productive nature of the pond and tidal influx ensured very fast growth of green mussels with a production of 1.5 t within 5 months. The green mussel seed were collected from Ashtamudi lake itself due to the unusually high salinity prevalent during



Horizontally hanged Mussel ropes in a shallow shrimp pond

2002-03 thereby saving the cost of the main input.

Another farmer, who opted for the horizontal mussel culture in the Ashtamudi lake itself also got similar production rate.

### Large scale adoption of mussel farming technology

The Self Help Groups at Kozhikode who were imparted training in mussel culture by the Molluscan Fisheries Division of the Institute and supported by the Aquaculture Development Agency of Kerala (ADAK) conducted a mussel harvest *mela* at Korapuzha fish landing centre, Kozhikode District on 1<sup>st</sup> June. About 50 tonnes of mussel were harvested from the 41 units that were given subsidy by the ADAK. Mussel production per metre of rope was 20 kg with over 35% meat.

The Hon'ble Minister of Fisheries and Tourism, Prof. K.V. Thomas, inaugurated the function which was presided over by the Hon'ble Minister for Health, Adv. P. Sankaran. The *mela* was attended by a contingent of officials from various departments connected with fisheries and rural development. The Fisheries Minister lauded the Institute for transferring the research outcome to improve the livelihood of the farmers and informed that the mussel culture activity would be extended to other areas also with the help of CMFRI.

### Pearls produced in Minicoy lagoon

Under the NATP project 'Augmentation of marine fish production in Lakshadweep' mabe pearl and half pearls

were experimentally produced in *P. fucata* for the first time in Minicoy waters.

### Lobster conservation Programme implemented

In order to create an awareness among various stake-holders the need for protection of egg bearing lobsters and juveniles so as to prevent further collapse of the lobster fishery, conservation workshops were organised by the Institute

along the Maharashtra and Gujarat coasts under the MPEDA funded project 'Participatory management and conservation of lobster resources along the southwest coast of India'.

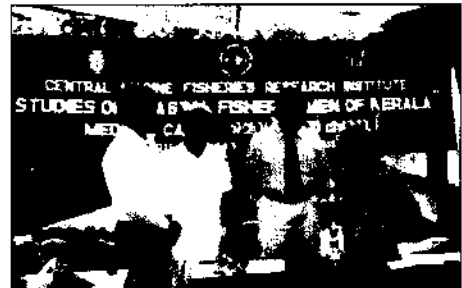
In Mumbai, the meeting was attended by nearly 300 participants including fishermen, boat owners, merchants, traders, seafood exporters, scientists and officials of Maharashtra State Fisheries Department, CIFE, EIA and MPEDA on 29<sup>th</sup> April. The participants unanimously agreed that all the stakeholders should abide by the regulations to be implemented by the Government without any reward in the interest of a common cause. Lobster conservation leaflets and stickers in Marathi were released on the occasion.

In Gujarat, workshops were held at Veraval, Mangrol and Porbander with the objective to bring all the stakeholders to

MPEDA, FSI, Export Inspection Agency, Seafood Export Association and representatives from Seafood Processing Companies and several fishermen associations. Rallies with banners and placards highlighting the need for lobster conservation were held at all the three places. At Porbander, the Secretary of the National Fish Worker's Forum promised the co-operation of the fishermen to abide by the regulations imposed by the Government.

### Health hazards of fisherwomen monitored

Under the NATP Project 'Studies on fisher women in coastal ecosystem of



Dr. Sreeletha Kunjamma, Medical Officer joining Dr. Mohan Joseph Modayil, Director CMFRI to inaugurate the Medical Camp at Anjilikkad

Kerala', medical camps were conducted at five selected coastal villages of Kerala to assess the occupational health hazards among fisherwomen. 531 fisherwomen were clinically examined during April - May.

### Change in trawling operations

At Veraval, due to the poor fishery there was an increase in the number of single day fishing operations. The major resources that contributed to the landings were ribbonfishes, croakers, threadfin breams and cephalopods in trawl nets; carangids, tunas and clupeids in gillnets; and Bombay duck, *Acetes* and non-peneacid prawns in dol nets.

### Infrastructure developed

At the Visakhapatnam Regional Centre, permanent seawater intake system was established with a seawater pumping capacity of 100 t per day. The central instrumentation facility of the Regional Centre is strengthened by the addition of Refrigerated Centrifuge, Zoom Stereo Microscope, LCD Projector, Digital Camera and Colony counter.



Dignitaries on the dais at the Lobster conservation meeting held at Veraval

a common platform and discuss modalities of implementing fishing and export regulation without affecting the livelihood of the fishermen and the industry. The meeting was attended by the officials from Gujarat State Fisheries,

## NEW HEIGHTS

### New Projects

- AP Cess Fund Network Project on National risk assessment progra-

mme for fish and fish products for domestic and international markets. This is a national project with CIFT as the nodal agency and

with CMFRI, CIBA, CIFE, CIFA, NBFGR and Mangalore Fisheries College as the participating Institutes. CMFRI will carry out the study of

parasites and heavy metal contamination in fresh green mussel and edible oyster from mariculture sites in and around Cochin area. The work will be executed by Fishery Environment Management and Physiology, Nutrition & Pathology Divisions with Dr. D. Prema as the Principal Investigator. The total outlay for CMFRI is Rs. 10,88,968/-. The three year project will commence from 1<sup>st</sup> July.

- SRC has approved a new project to be funded by the Institute entitled **GIS based atlas on potential mariculture sites along Indian coasts** with Dr. V.V. Singh as the Principal Investigator.

### Achievers

#### National Award for CMFRI Scientist

Dr. V. Sriramachandra Murty, former Head of Demersal Fisheries Division of CMFRI has been conferred the coveted Rafi Ahmed Kidwai Award, 2001-2002 by ICAR for his outstanding contributions in marine fisheries development.

Dr. Murty has conducted original research for nearly four decades in several groups of commercially important



Shri. Rajnath Singh, Hon'ble Union Minister for Agriculture presenting the Rafi Ahmed Kidwai Award to Dr. V. Sriramachandra Murty

marine fishes and generated a data base on their biology and population dynamics. Dr. Murty's pioneering research on the marine ornamental fishes of the Lakshadweep serves as a reference work for formulating strategies for exploitation, export and management of these resources.

The award consisting of a Medallion, Certificate, Citation and Cash of Rs. 3

lakhs was presented to Dr. V. Sriramachandra Murty by the Honourable Union Minister for Agriculture at a function held in New Delhi on 16<sup>th</sup> July.

#### Winners of Kalasangamam 2003

CMFRI staff have won four prizes in Kalasangamam 2003 organised by Central Government Employee's Welfare Co-ordination Committee held on 8<sup>th</sup> and 9<sup>th</sup> April at Cochin. The prize winners are:

- \* Dr. P. Jayasankar - First prize in classical music and second prize in light music
- \* Shri K. Anandan - Second prizes in fancy dress and *badai* story telling.

#### Winners of ICAR Interzonal sports Meet

Three prizes were won by CMFRI personnel at the sports meet held at Kolkata from 27<sup>th</sup> April to 1<sup>st</sup> May. The prize winners are:

- \* Shri A.K. Shaji - I prize in Javelin throw
- \* Shri Joseph Mathew - II prizes in 100 & 200 m dash.

## TRANSFER OF TECHNOLOGY

#### Training for practicing farmers, youth and rural women

Krishi Vigyan Kendra of the Institute at Narakkal imparted training to 362 persons by conducting 20 training courses during the period April-June. The number of training courses and beneficiaries are as follows:- **Fisheries** (shrimp/brackishwater fish and freshwater ornamental fish farming): **6 - 107**; **Agriculture** (Jasmine/mushroom/coconut/vegetable cultivation and integrated nutrient management in farms): **6 - 110**; **Home Science** (shrimp/mango pickle, pineapple squash/jam, cleaning powder preparation and on health and hygiene): **8 - 145**.

**Collaborative training programmes** were organised by KVK in association with Nayarambalam Panchayat in the preparation of shrimp pickle (1) and with

Vypeen block in pineapple jam (1) and cleaning powder (1). The beneficiaries included Village extension workers and members of IVLP.

#### Training for entrepreneurs

The Trainers' Training Centre of the Institute conducted a training course on 'Seaweed culture' at the Mandapam Regional Centre of the Institute for a period of 6 days from 19<sup>th</sup> to 24<sup>th</sup> May. The participants sponsored by private firms involved in the production of seaweed products were imparted training through theory and practical sessions on species identification, cultivation methods, farm management, extraction of agar, determination of gel parameters and preparation of seaweed recipes.

#### Training for Scientist probationers

The Field Experience Training in

respect of six ARS scientists probationers of 76th FOCARS (NAARM) batch has commenced from June 28<sup>th</sup> at the Institute Headquarters.

#### Institution Village Linkage Programmes

At the IVLP village of Elamkunnapuzha, an yield of 320 kg/unit was realized from the seed of *Mugil cephalus* stocked at the rate of 800 numbers per pond in an area of 0.04 ha during June 2002. The fish attained an average weight of 470 g and length of 35.7 cm.

Under the agricultural intervention, seeds and saplings were distributed as follows: vegetable seeds to 85 fisher folk during April, banana suckers and fodder slips of para grass in June to 10 farmers each. Under the animal husbandry intervention, ducks were distributed to 20 farmers.

## INTERACTION AND EVALUATION

#### Management Committee Meeting

The 58<sup>th</sup> meeting of the Institute Management Committee was held on 29<sup>th</sup> May. The Chairman, Dr. Mohan Joseph Modayil, Members - Dr. N. Gopala Krishna Pillai, Dr. K.K. Appukkuttan, Dr. R. Sathiadas, Shri S. George,

Shri C.K. Soman, Shri T.C. Nagaraju and Shri N. Viswambaran, Member Secretary attended the meeting.

#### Staff Research Council

The tenth reconstituted annual SRC meeting of the Institute was held on 26<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup> May at Cochin. The resea-

rch progress of the 50 in-house projects, 17 NATP projects, 26 projects sponsored by funding agencies and 5 consultancy and contract research projects were presented and discussed. Five new in-house projects were approved. The Heads of Divisions, Scientists-in-Charge of Regional/Research Centres and all

Principal Investigators attended the meeting.

#### Committee constituted for generation of revenues

A six member committee headed by Dr. R. Paul Raj, Principal Scientist has been constituted to identify the income generating areas and to recommend charges to be levied for the commodity/ services provided by the Institute.

#### Seminars held

Divisional seminars were conducted at Headquarters on various subjects as indicated:

- ♦ Marine biofowling and control measures - Shri T.S. Velayudhan
- ♦ Fermentation technology for production of biomolecules - Dr. Imelda Joseph
- ♦ Sediment and water quality management in mariculture - Dr. D. Prema

Scientists, technical staff and students actively participated in the discussions that followed and the suggestions which emerged recorded for identifying prospective researchable issues.

♦ Dr. N.G.K. Pillai, Head, Pelagic Fisheries Division presented a seminar on his deputation to WorldFish Center, Malaysia at HQ.

♦ Dr. (Smt.) S. Sivakami, Principal Scientist presented a seminar on 'Demersal fishery resources of India - an overview' at the Kakinada Research Centre.

#### World Bank expert reviews NATP projects

The World Bank expert Dr. Mario Pedenti visited the Institute from 7<sup>th</sup> to 9<sup>th</sup> June and reviewed the NATP projects being implemented by the Institute. Dr. Pedenti also visited the IVLP village and reviewed the various fisheries, agriculture and animal husbandry interventions.

#### Farmers meet conducted

The farmers meet on 'Jasmine cultivation' conducted by KVK, Narakkal on 18<sup>th</sup> June in association with Edavanakad grama panchayat was inaugurated by the Panchayat President Shri A.K. Sarasan. 53 jasmine cultivators attended the meet which included 30 women.

A meet for pokkali paddy farmers was arranged on 22<sup>nd</sup> June in association with Vikas Trust, Elamkunnappuzha, Vypeen. Discussion on cultivation practices was held and guidance was given by KVK to start cultivation of pokkali paddy in 0.4 ha of land belonging to Vallampilly samajam and 2.8 ha of land belonging to Kattchal samajam in Elamkunnappuzha village. The Trust distributed 240 kg of Pokkali paddy seeds to the farmers during the meet.

#### Consultation for fishermen

Twenty five fishermen belonging to BCV Palem village of east Godavari district visited Kakinada Research Centre of the Institute on 22<sup>nd</sup> May to discuss the prospects of alternate employment for the youth of their village in the fishing industry as the catch from the sea was declining. The possibility of carrying out clam culture in their area seeking financial support from the Chief Minister's/Prime Minister's Rozgar Yojana was suggested by the experts of the Institute and is being explored.

## ACADEMIC NEWS

#### Ph.D. Awards

Scholar	Guide	Title of the Thesis
Suja, N.	Dr. P. Muthiah Principal Scientist	Studies on the reproduction of <i>Marcia opima</i> (Gmelin).
Sreeraj, G.	Dr. G. Gopakumar Principal Scientist	Studies on the reproductive biology, breeding and larval rearing of selected marine ornamental fishes belonging to the family Pomacentridae.

## OFFICIAL LANGUAGE IMPLEMENTATION

#### Inspection

Dr. Mohan Joseph Modayil, Director inspected the Official Language Implementation activities of Pelagic Fisheries and Demersal Fisheries Divisions of the Institute on 3<sup>rd</sup> April.

#### Computer Training

In order to accelerate the use of Hindi

through computer, training in Hindi software *Leap Office* was organised on 12<sup>th</sup> June. Installation of *Leap Office*, multi-lingual computing, translation dictionary etc. were taught to 11 officers/staff who participated in the training.

#### OLIC Meeting

The 59<sup>th</sup> meeting of the Official Lan-

guage Implementation Committee of the Institute was conducted on 27<sup>th</sup> June under the chairmanship of the Director to review the progressive use of Hindi and to chalk out programmes for implementation.

#### Presentation of Theses Abstracts

Abstracts of 9 M.F.Sc. and 1 Ph.D. theses were submitted in Hindi.

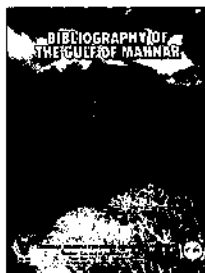
## INSTITUTE PUBLICATIONS

#### Bibliography of the Gulf of Mannar

CMFRI Special Publication No. 74  
P. Nammalwar and V. Edwin Joseph

This comprehensive volume includes references of the published information on the flora and fauna of India's first national marine park-The Gulf of Mannar

Marine Biosphere Reserve (GOMMBR). The relevant literature including taxonomic, biological and ecological studies is compiled author-wise and sub-



ject-wise. The book is an essential document for designing management strategies and conserving marine biodiversity in the Gulf of Mannar ecosystem.

The publication is in ¼ crown size, 204 pages, perfect binding with laminated cover. Price: Rs. 200.

### **Institution Village Linkage Programme: Coastal Agro Ecosystem and Interventions**

CMFRI Special Publication No. 75

R. Sathiadhas, Sheela Immanuel,  
A. Laxminarayana, L. Krishnan,  
D. Noble, K.N. Jayan, Sindhu Sadanandan

The book analyses the coastal agro ecosystem of Elamkunnappuzha village in Vypeen Island through the information collected by employing participatory rural appraisal techniques. The performance assessment of various fisheries, livestock and agriculture based techno-interventions implemented as part of the National Agricultural Technology Project entitled 'Institution Village Linkage Programme for Technology Assessment and Refinement in the Coastal Agro Ecosystem of Ernakulam in Kerala' is also given in detail.

The publication is in ¼ crown size.



79 pages, print in multicolour on imported art paper, binding perfect with laminated cover. Price: Rs. 30.

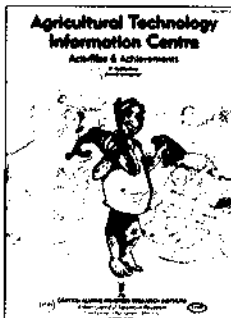
### **Agricultural Technology Information Centre: Activities and Achievements**

CMFRI Special Publication No. 76

R. Sathiadhas and Sheela Immanuel

The book gives an account of the activities and achievements of the newly established Agricultural Technology Information Centre at CMFRI. The facilities available at ATIC for the end use of farmers is systematically accounted in this book and is very useful source of information for the rural fisherfolk.

The publication is in ¼ crown size, 41 pages, print in multicolour on imported art paper, perfect binding with laminated cover. Price: Rs. 20.



### **Matsyagandha 2002**

CMFRI Special Publication No. 77

(Publ.) Dr. Mohan Joseph Modayil

The 'Matsyagandha' series is aimed at disseminating fisheries news in the Official Language Hindi to the national stream of Agricultural information system. The third issue in the series, 'Matsyagandha 2002', the scenario of the Indian fisheries is given through the 17 articles included focusing the theme 'Fish in food security'.

The publication is ¼ crown size, 66 pages, binding perfect with laminated cover, print in black and white on imported art paper. Issued free of cost on demand.



### **Pamphlets**

- ATIC (In Hindi, Malayalam and English)
- Veraval Regional Centre (In Hindi)
- Mussel culture • Edible oyster culture
- Pearl oyster culture • Prawn culture
- Prawn feed and • Fish diseases (In Gujarathi).

## **IN-HOUSE EVENTS**

### **Dr. Mangala Rai visits CMFRI**

Dr. Mangala Rai, Secretary, DARE and Director-General, ICAR and Dr. S. Ayyappan, Deputy Director General (Fy.) visited the Institute Headquarters on 26<sup>th</sup> April. The Honourable guests were apprised of the ongoing scientific work carried out at the eight divisions of the Institute.

Dr. Mangala Rai who had conceptualized the Agricultural Technology Information Centre (ATIC) inaugurated the new building for ATIC at the Institute wherein the Director-General also launched the website of the ATIC [www.aticcmfri.org](http://www.aticcmfri.org). The distinguished guests later addressed the staff members and students. Dr. Mangala Rai reminded the staff, the crucial, critical and vital role of developing technologies to offset production for sustained development. The need of the hour is a war against hunger, malnutrition and poverty. Dr. Rai called upon researchers to dream quick, have conviction and clarity of thoughts and to be servants of action and move forward with greater velocity. Dr. S. Ayyappan focussed attention on the reformation and renewal of the Institute

mandate and emphasised on transfer of technology programmes.

The Director-General released three of the technologies developed at the Institute by handing over the kit/samples to progressive farmers who were active partners in the programmes: (1) The **PCR kit** for the detection of White Spot Syndrome Virus in shrimps; (2) A special feed, *Psylla pushiti* for crab fattening and (3) a **bioenriched feed** for ornamental fish. A CD on an **animated film** entitled '**Responsible Fisheries**', was also released, the first copy of which was accepted by 'Green Seas', the NGO which is active in the field of marine fisheries conservation.

The Honourable DG also released six of the Institute publications: (1) *Bibliography of the Gulf of Mannar*, Special Publication No. 74; (2) *Institution Village Linkage Programme : Coastal Agro Ecosystem and Interventions*, Special Publication No. 75; (3) *Agricultural Technology Information Centre : Activities and Achievements*, Special Publication No. 76; (4) Brochures on ATIC (in Hindi, Malayalam and English); (5) *Matsyagandha* (In Hindi), Special Publication No. 77 and (6) *Proceedings of First Indian Pearl Congress*.

### **Office bearers of Staff Recreation Club re-elected**

The Annual General Body meeting of the Recreation Club of CMFRI held on 5<sup>th</sup> May was chaired by the patron of the club and Director, Dr. Mohan Joseph Modayil. The office bearers are: Dr. L. Krishnan (President), Dr. K.S. Mohamed (Vice-President), Dr. V. Kripa (Secretary), Shri K.N. Pushkaran (Joint Secretary), Smt. E.K. Uma, Shri M.L. Sathyan and Shri Rishikesh Andi (Executive Committee members), Shri A.P. Sebastian (Member) and Shri P. Radhakrishnan (Treasurer) were elected as new office bearers. It was decided to convene the send-off meeting to the superannuating staff by the Head of the Institute instead of the secretary of the recreation club and also to bid farewell to staff members on inter-institutional transfers.

Dr. (Smt.) S. Sivakami, Principal Scientist has **taken over the duties of the Head, Demersal Fisheries Division** on 12<sup>th</sup> May.

**Anti-terrorism Day** was observed and anti-terrorism pledge was taken by the staff members on 21<sup>st</sup> May.

## PERSONALIA

### Guests

#### Tuticorin Research Centre

- ▶ Mr. K. Rajaraman, I.A.S., District Collector, Thoothukudi

#### Mangalore Research Centre

- ▶ Dr. M. Ponnuram, Sr. Manager and Dr. Pinakapani, Manager, Environmental Engineering Section, MECON, Bangalore/Ranchi

#### Veraval Regional Centre

- ▶ Shri Dominique Gillburck, Manager, Maltini Group, Casterloock, Dart
- ▶ Sudarshan Rodriguez, Reefwatch Marine Conservation, Bandra (W), Mumbai

#### Mandapam Regional Centre

- ▶ Total visitors at this Centre was 2,357 of which 1,773 were students from 57 educational institutions

#### Kakinada Research Centre

- ▶ Dr. (Mrs.) Vijaya Khader, Dean, Faculty of Home Science, ANGRAU, Hyderabad

#### Mincioy Research Centre

- ▶ Dr. T.K. Pal, Joint Director and team, Zoological Survey of India, Kolkata.

#### Programme participation

##### Prof. (Dr.) Mohan Joseph Modayil, Director

- ▶ Meeting for discussions on the EFC Memos for X Plan at the SMD, New Delhi (19-21 June).
- ▶ 3<sup>rd</sup> Consultative Committee meeting of Fishery Survey of India held at Mumbai (25 June).
- ▶ Chaired the General Body meeting of Marine Biological Association of India held at CMFRI (27 May).

- ▶ Dr. N.G.K. Pillai, Principal Scientist and Head, Pelagic Fisheries Division

- ▶ Meeting for discussions on the EFC Memos for X Plan and at the SMD at New Delhi (19-21 June)

**Dr. R. Paul Raj**, Principal Scientist and Head, Physiology, Nutrition and Pathology Division

- ▶ Meeting to consider the risk analysis aspects for issue of Sanitary Import Permits (SIP) on fish and fishery products organized by Department of Animal Husbandry and Dairying, Ministry of Agriculture, Government of India at Krishi Bhavan, New Delhi (3 June)
- ▶ The XXXI Academic Council meeting at Central Institute of Fisheries Education, Mumbai (5 June)

**Dr. L. Krishnan**, Principal Scientist

- ▶ Facilitators Certification in Human Resources Development, conducted by the College for Lectureship and HRD, AIM Insights, Mangalore (13-22 May)

**Dr. T.V. Sathianandan**, Sr. Scientist

- ▶ Summer school on 'Recent Advances in Agricultural Research Project Management' at NAARM, Hyderabad (9-29 April)

**Dr. Vipin Kumar**, Scientist

- ▶ Radio talk on 'Women empowerment in fisheries sector', All India Radio, Thrissur (14 May)

**Dr. P.K. Martin Thompson**, Scientist-in-Charge, KVK, Narakkal

- ▶ Planning meeting of KVKs of Kerala State and Lakshadweep of TOT Projects (ICAR) Zone VIII at Directorate of Biological Control (ICAR), Bangalore (14 May)

- ▶ X plan programme review meeting of the District Watershed committee convened by District Collector, Ernakulam at Civil Station, Kakkanad (25 June)

**Shri J. Srinivasan and Shri S. Haja Najeemudeen**, Technical Officers

- ▶ Training programme in "RDBMS and Access 2000" at Indian Agricultural Statistics Research Institute, New Delhi (31<sup>st</sup> March to 5<sup>th</sup> April)

**Dr. A.C.C. Victor**, Principal Scientist

- ▶ Delivered a lecture on 'Pearl culture and pearl farming' at the Workshop on Project design on 'Green Marine Reserve Enterprise' organized by M.S. Swaminathan Research Foundation at Mandapam (1 May)

- ▶ Pearl Harvest under the project 'Alternate livelihood and additional source of income for poor fishermen in Gulf of Mannar' at Mundal Munai village of Ramanadhapuram District (5 June)

**Dr. K.V.S. Nair**, Principal Scientist and Scientist-in-Charge, Veraval Regional Centre, **Shri Joe K. Kizhakudan** and **Smt. Sobha Joe Kizhakudan**, Scientists

- ▶ Inauguration ceremony of the project participatory management and conservation of lobster resources along the north-west coast of India at Veraval and Mangrol (1 May) and at Porbandar (2 May)

**Shri K.P. Saldkoya**, Scientist-in-Charge, Mincioy Research Centre

- ▶ Meeting, Seminar and Quiz programme on 'Sustainable use and conservation of water' organized by the Dept. of Science & Technology in connection with the World Environment Day 2003 (5 June).

### OBITUARY

Shri N. Ilamparuthi, UDC at Mandapam Regional Centre expired on 8.6.2003.

## ANNUAL TRAINING PROGRAMME (TRAINERS' TRAINING CENTRE)

Sl. No.	Title of the course	Duration (days)	Venue	No. of participants	Course fee per participant
1.	Hatchery Production of Marine Shrimp	15	Mandapam	10	3000.00
2.	Shrimp Farming	10	Cochin	20	1500.00
3.	Ornamental Fish Culture	6	Calicut	20	1500.00
4.	Seaweed Culture (Oct. to Mar.) *	6	Mandapam	12	1500.00
5.	Artificial Reefs	6	Tuticorin	10	1500.00
6.	Histopathology of Finfish & Shellfish	10	Cochin	5	5000.00
7.	Water Quality Management	6	Cochin	20	1500.00
8.	Live Feed Culture	6	Chennai	20	1500.00
9.	Mussel Farming (Nov. to May)*	2	Calicut	20	500.00
10.	Pearl Culture (Dec. to January)*	20	Tuticorin	20	3000.00
11.	Edible Oyster Culture (Nov. to May)*	1	Quilon	10	500.00
12.	Fish Processing	6	Cochin	20	1500.00
13.	Finfish Mariculture	6	Cochin	20	1500.00
14.	Hatchery Techniques for Edible Oyster	6	Tuticorin	20	1500.00
15.	Finfish & Shellfish diseases and their management	10	Vizhinjam	20	5000.00
16.	Methods in Fishstock Assessment	15	Cochin	20	1500.00
17.	Coastal Zone Management	3	Cochin	20	1500.00
18.	Transportation of Live Finfish & Shellfish	5	Cochin	20	1500.00
19.	Responsible Fisheries	3	Cochin	20	1500.00
20.	WTO & Fisheries	2	Cochin	20	1500.00
21.	Integrated Training on Fisheries Education.	20	Cochin	10	3000.00
22.	SCUBA diving	30	Tuticorin	10	10000.00
23.	Crab Fattening	6	Cochin	20	1500.00
24.	Cost Effective Aquafeed Formulation & Production.	6	Cochin	10	5000.00
25.	Computer Based Application of Statistics in Fisheries.	20	Cochin	10	3000.00

\* Seasonal Programme

**Note:** In addition to the training courses proposed above, the proposal put forward by other agencies will also be considered.

**Promotions**

	Designation	Promoted post	Centre	w.e.f.
Shri. P. Krishnakumaran	Stenographer Gr. III	Junior Accounts Officer	Cochin HQ	28-5-2003
Shri T.N. Padmanabha Kurup	Assistant	Asst. Adm. Officer	Veraval Regl. Centre	28-6-2003

**Transfers**

	Designation	From	To
Dr. (Smt.) S. Sivakami	Principal Scientist	Kakinada Res. Centre	Cochin HQ
Shri Joe K. Kizhakudan	Scientist	Veraval Regl. Centre	Madras Res. Centre
Smt. Sobha Joe Kizhakudan	Scientist	Veraval Regl. Centre	Madras Res. Centre
Smt. Miriam Paul	Scientist	Visakhapatnam Regl. Centre	Mumbai Res. Centre
Shri V. Edwin Joseph	Librarian (T-6)	Mandapam Regl. Centre	Cochin HQ
Shri P. Chithambaram	Librarian (T-5)	Cochin HQ	Mandapam Regl. Centre
Shri M. Selvaraj	Sr. Tech. Assistant (T-4)	Madras Res. Centre	Tuticorin Res. Centre
Shri K. Ramadoss Gandhi	Sr. Tech. Assistant (T-4)	Cochin HQ	Madras Res. Centre
Shri T. Chandrasekhara Rao	Sr. Tech. Assistant (T-4)	Kakinada Res. Centre	Ongole F. Centre
Shri Prabhakar Sankar Salvi	Messenger (SSGr.II)	Veraval Regl. Centre	Mumbai Res. Centre

**Inter-Institutional transfers**

Shri Charles Ekka	Senior Adm. Officer	Cochin HQ	CPRI, Shimla
Shri P.S. Sudersanan	Adm. Officer	Cochin HQ	CPCRI, Kasaragod
Dr. (Smt.) Preetha Panikkar	Scientist	Calicut Res. Centre	CIFRI Bangalore
Shri T.N. Sukumaran	Bosun (T-5)	Vizhinjam Res. Centre	CIFT, Cochin
Shri Thomas Teles	Bosun (T-5)	Calicut Res. Centre	CIFT, Veraval
Shri T.R. Sreekumaran	Oilman (T-4)	Cochin HQ	CIFT, Cochin
Shri D. Padmanabhan	Driver (Boat) (T-4)	Madras Res. Centre	CIFT, Veraval
Shri P. Ramakrishna	SSGr.I (Deckhand)	Visakhapatnam Regl. Centre	CIFT, Visakhapatnam

**Retirements**

	Designation	Centre	w.e.f.
Shri R. Thiagarajan	Principal Scientist	Vizhinjam Res. Centre	30-4-2003
Smt. T.N. Ananthalakshmi	Tech. Assistant (T-3)	Cochin HQ	30-4-2003
Shri R. Subramanian	Tech. Assistant (T-3)	Mandapam Regl. Centre	30-4-2003
Shri Prasanthakumar Das	SSGr.II (Messenger)	Visakhapatnam Regl. Centre	30-4-2003
Shri P. Livingston	Senior Scientist	Tuticorin Res. Centre	31-5-2003
Shri V. Gandhi	Senior Scientist	Mandapam Regl. Centre	31-5-2003
Shri N.T. Velappan	SSGr.III (Peon)	Cochin HQ	31-5-2003
Shri M.N. Appukkuttan Nair	Motor Driver (T-4)	Cochin HQ	31-5-2003
Shri P.S. Morajkar	SSGr.III (Watchman)	Karwar Res. Centre	31-5-2003
Dr. P. Nammalwar	Principal Scientist	Madras Res. Centre	30-6-2003
Shri M.V. Somaraju	Technical Officer (T-6)	Visakhapatnam Regl. Centre	30-6-2003
Shri V. Demudu	LDC	Visakhapatnam Regl. Centre	30-6-2003
Shri K.C. Devassy	Deckhand (T-3)	Cochin HQ	30-6-2003

**Voluntary Retirement**

Shri P.K. Chellappan	SSGr.II (Watchman)	Cochin HQ	21-4-2003
----------------------	--------------------	-----------	-----------

Published by : **Prof. (Dr.) Mohan Joseph Modayil**, Director, CMFRI, Kochi - 682 014

Telephone : 2394867. Fax : 91-484-2394909. E-mail : mdcmfri@md2.vsnl.net.in. Website : www.cmfri.com

Editor : **Dr. (Smt.) Geetha Antony**, Technical Officer

Secretarial Assistance : **Smt. N. R. Letha Devi**