



CMFRI NEWSLETTER

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CMFRI succeeds in on-shore culture of pearl



Pearl oyster with pearl produced in the on-shore system

CMFRI achieved success in the on-shore production of marine pearls at the shore laboratory at the Visakhapatnam Research Centre. Eighty pearl oysters were implanted with 3 mm nuclei and 18 A grade pearls, 12 B grade pearls and 7 C grade pearls were obtained.

Pearl production in prawn hatchery

CMFRI, for the first time, successfully attempted the production of pearl oyster spat (*Pinctada fucata*) using the facilities available at the Gem Hatcheries, a private enterprise at Madras. Eggs were collected from the spawners brought from Tuticorin and reared through different larval stages. Settlement started after 35 days. Limited number of spats could only be produced due to the limitations in micro algae production and maintenance of water quality.

Entrepreneurship development programme on pearl culture

A two-month entrepreneurship development course in marine pearl culture organised by the TTC was conducted at the Tuticorin Research Cen-

tre from 23 December. Fifteen trainees participated in the programme which included pearl oyster culture and pearl production.

Cage for collection of ornamental fish designed

A cage was designed at the Vizhinjam Research Centre to catch ornamental and edible fishes and lobsters. The cage is also suitable for use in reefs, coral areas and other deeper regions.

Workshop on artificial reefs and seafarming technologies

A six-day workshop on artificial reefs and seafarming technologies was organised by CMFRI jointly with the Ministry of Agriculture and Cooperation at Cochin during 16-22 January. The inaugural session was presided over by Dr K.G. Adiyodi, Vice Chancellor, Cochin University of Science and Technology. The workshop was inaugurated by Shri K.B. Pillai, IAS, Chairman, MPEDA. Three books namely Artificial reefs and Seafarming Technologies, Biodiversity Conservation and Management and Economically Important Seaweeds were released on the occasion.

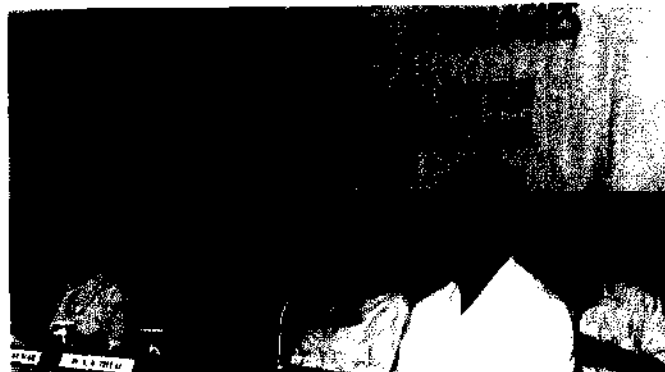
Seminar on industrial fisheries research and development

A seminar on recent advances in industrial fisheries research and development was conducted at CMFRI, Cochin from 22-24 January.

Dr N.R. Menon, Acting Registrar, CUSAT inaugurated the Seminar and Dr M. Devaraj, Director, CMFRI presided over the function. Dr M. Peer Mohamed, Principal Scientist, CMFRI, welcomed the participants and Dr N.G.K. Pillai, Senior Scientist proposed a vote of thanks. Twenty two participants drawn from 14 colleges and two universities from 10 states participated.

Fishermen-Farmers-Industry-Institution Meet

The seventh, eighth, ninth and tenth Meets with edible oyster farming, artificial fish habitats, mini hatchery technology for shrimps and sustainable shrimp farming as focal themes were held in November, December, January and February respectively at the CMFRI Headquarters, Cochin and the regional and research centres. A number of fishermen, farmers, representatives from industries and financial institutions attended.



Dr M. Devaraj, Director, CMFRI speaking at the inaugural session of the workshop. Seated (L to R) are Shri K.B. Pillai, IAS, Chairman, MPEDA, Dr K.G. Adiyodi, Vice Chancellor, CUSAT, Dr K. Gopakumar, Director, CIFT and Dr V.K. Pillai, Senior Scientist, CMFRI

KVK

The Krishi Vigyan Kendra conducted training programmes on prawn farming, vegetable and coconut cultivation, poultry farming, live stock production and kitchen gardening and trained 125 women.

Publication on marine biodiversity

The CMFRI has published a book entitled Marine Biodiversity Conservation and Management edited by Dr N.G. Menon and Dr C.S.G. Pillai.

Although a wealth of information is available on terrestrial biodiversity, our knowledge of marine diversity is far from complete and poorly documented. The book describes the biodiversity of the seas around India which is very rich with diverse species of flora and fauna occupying a wide range of habitats including the mangrove swamps, estuaries, saline lagoons, coral reefs and oceanic islands, seagrass meadows, sandy, rocky intertidal zones, continental shelf and deep oceanic realms. The publication stresses the need to maintain marine fish production at optimum levels and ensure the integrity of the marine habitats.

Meeting of the Staff Research Council

The 2nd meeting of the reconstituted Staff Research Council of the Institute was held at Cochin, 9-10 November 1995. The meeting reviewed the progress of the scientific work at the Institute. Dr K. Radhakrishna, Assistant Director General, (Marine Fisheries) attended the meeting.

Antarctica expedition

Shri P.R. Leopold, Skipper participated in the first krill expedition to Antarctica from India under the leadership of Dr M.K.R. Nair, Director, IFP, Cochin. Shri Leopold was in charge of the fishing operations and handling



Shri P.R. Leopold and Dr M.K.R. Nair on board FORV Sagar Sampada

of scientific equipments onboard the vessel FORV Sagar Sampada.

Official language award for CMFRI

CMFRI bagged the official language award for the outstanding performance in Hindi for the period 1994-95 among the public sector undertakings in the south-west region.

Engagements

Dr M. Devaraj, Director, attended the following meetings:

Meeting of the ICAR Fisheries Expert Panel New Delhi, 12-13 December.

Meeting of the expert committee for the preparation of 10 year profile on the activities to be undertaken by the Department of Ocean Development in the areas of marine environment and coastal zone, New Delhi, 12 January.

Seminar on financing deep sea fisheries development in Karnataka, College of Fisheries, Mangalore, 30 January.

Meeting of the 12th task force on aquaculture and marine bio-technology, New Delhi, 6 February.

Meeting of the expert committee to review the work done by the Fisheries College and Research Institute, Tuticorin, 9-10 February.

Meeting of the DOD expert group on marine living resources - drugs and chemicals, New Delhi, 12 February.

The first meeting of the working group on fisheries for 9th Five Year Plan of the Department of Agriculture and Cooperation, New Delhi, 19 February.

ICAR Directors' Conference and Divisional Meetings, New Delhi, 26-28 February.

Dr M. Devaraj and a team of scientists attended the following seminars.

Traditional fishing technologies of Tamil Nadu organised by Manonmaniam Sundarnar University, Thirunelveli, Kanyakumari, 15 November.

Technological advancements on fisheries and its impact on rural development organised by the Department of Industrial Fisheries, CUSAT and presented research papers on various aspects of marine fisheries, 5-7 December.

Status of scientific data base on Lakshadweep Islands, Cochin, 6-7 December.

Dr G. Sudhakara Rao, Principal Scientist attended the meeting of the Central Board of Fisheries, Calcutta, 2-3 November.

Dr V.S.K. Chennubhotla, Principal Scientist, attended XVII Consultative Group, Visakhapatnam, 24 November.

Dr Chennubhotla, Dr G. Sudhakara Rao, Dr G. Syda Rao, Shri K.M.S. Ameer Hamsa and Shri K. Vijayakumaran attended the one day workshop on fishery resources of the upper east coast at Fishery Survey of India, Visakhapatnam, 8 February.

Dr Chennubhotla, delivered a guest lecture on seaweeds and their utilization at the National Bureau of Fish Genetic Resources, Lucknow, 25 February.

Dr R. Sathiadhas, Dr Krishna Srinath, Senior Scientists and Shri V Mohan, Junior Library Assistant attended the congress on traditional science and technologies of India, Madras, 27-31 December.

Shri R. Narayanakumar, Scientist participated in the two weeks training course on quantitative techniques for policy analysis in agricultural economics at the Centre of Advanced Studies in Agricultural Economics, IARI, New Delhi, 27 November - 9 December.

Shri Y.H. Gamanagatti, Senior Clerk participated in the Hindi workshop organised by LIC, Karwar, 28 November.

Shri M. Feroz Khan, Scientist (SS) attended the fifth national conference on marine living resources and presented a paper on marine living resources of India and the importance of integrated coastal zone management, NIO, Goa, 28-29 November.

Dr N. Kaliaperumal, Senior Scientist participated in the national symposium on algal potential and its exploitation and presented a paper on outdoor culture of agar yielding red algae *Gracilaria edulis*, American College, Madurai

Dr R. Paul Raj, Senior Scientist participated in the interaction meeting on aqua feeds organised by the Department of Biotechnology, Government of India and presented a status paper on raw material availability and marketing of various aqua feeds.

Shri K. Vijayakumaran, Scientist (SS) delivered a lecture on the status of

fishery industry in India at the monthly meeting of the Visakh Investors Association, Visakhapatnam, 17 December.

Dr A.P. Lipton, Senior Scientist attended the review meeting of the DOE & F projects, Ministry of Environment and Forests, New Delhi, 11-12 January.

Dr K. Rengarajan, Senior Scientist inaugurated the Zoology Association of Maharaja's College and delivered a talk on mysteries and marvels of electron microscope, 17 February.

Dr C. Suseelan, Senior Scientist attended XIX meeting of the Academic Council, CIFE, Mumbai, 26 December.

Degree awarded

Shri S. Kandan, Former Research Fellow was awarded Ph. D degree by the CUSAT for his thesis entitled studies on sea cucumbers of Lakshadweep. He worked under the guidance of Dr K. Rengarajan, Senior Scientist, CMFRI.



Visitors

COCHIN

Dr Andrzej Zieliński, Professor of Physics & Scientific Director, Institute of Oceanography, Polish Academy of Sciences.

Shri Arvind Netam, Hon'ble Minister of State for Agriculture, 14 February.

Students from the following institutions visited CMFRI, Cochin.

Pazhassi Raja NSC College, Mattannur; NSS College, Changanassery; College of Fisheries, Ratnagiri; BJB College, Orissa; Quaid-e-milleth College, Madras; SVU College, Thirupathi; Loyola College, Vijayawada; Andhra University, Vizakhapatnam; SH College, Ernakulam; Jamal Mohammed College, Trichy and Madurai Kamaraj University, Madurai.

VISAKHAPATNAM

Shri V.R. Sabhapati, Chairman, Legislative Committee of Karnataka,

Shri Chandrakant Bellady, Shri Ravindranath and Shri Dyanananda, members of legislative subject committee on agriculture, horticulture, animal husbandry and fisheries, Karnataka, 7 November.

Dr S. Shanmugasundaram, Vice Chancellor, Tamilnadu Veterinary & Animal Science University, Madras.

Dr Rabindra Nath with a group of farmers, Directorate of Fisheries, Port Blair.

Shri C.P. Varghese, Director CIFNET, Cochin.

Dr G. Gopalakrishna and Dr A. Ali, Senior Scientists, Inland Fisheries Training Centre, CIFE, Barrackpore.

Shri K.V. Rao, IAS, Secretary, Department of Industries and Commerce, Govt. of Andhra Pradesh.

Shri A.J. Krishna Murthy, Deputy Manager, Canara Bank, Visakhapatnam.

VERAVAL

Shri R. Venkataramanan, Principal, Dalmia Public School, Sutrapada.

Dr Anish Dua, GND University, Amritsar.

Dr K. Radhakrishna, ADG, ICAR, New Delhi.

Dr S.C. Pathak, Manager, Shri G.S. Mehtha, AGM NABARD, Ahmedabad.

Prof. B.G. Paghae and Smt Geetha Shetty, Sidhartha College, Mumbai.

MANDAPAM CAMP

Shri Lalrana Sailo, IAS, Commissioner of Fisheries, Tamil Nadu.

Appointments

Shri K.S. Sreekumaran as Superintendent (A & A) on deputation at Cochin, 17 October.

Shri K. Faisal as Junior Stenographer at Cochin, 20 November.

Shri Shashikant Ramachandra Yadav as Driver for light vehicle at Mumbai, 12 September.

Smt T. Mahalekshmi as Junior Clerk at Tuticorin, 4 September.

Smt. T.C. Chandrika as Junior Clerk (Hindi), temporary, at Cochin, 10 October.

Shri S. Mariappan as SSG-1 (Watchman) at Tuticorin, 30 August.

Shri K. Ganesan as Safaiwala at Mandapam, 31 January.

Shri K. Anandan as Safaiwala at Mandapam, 31 January.

Shri N. Chandran as Safaiwala at Mandapam, 2 February.

Shri P. Sathyanarayana as Watchman at Kakinada, 9 February.

Promotions

Shri P.R. Leopold, Technical Officer (Skipper T-8) as Technical Officer (T-9 Skipper) at Cochin, 1 January 1993.

Dr P.K. Martin Thompson, Technical Officer (T-7) as Technical Officer (T-8) at KVK, Narakkal, 1 September 1991.

Shri G. Balakrishnan, Technical Officer (T-7) as Technical Officer (T-8) at Madras, 1 January 1992.

Shri K.N. Rasachandra Kartha, Technical Officer (T-7) as Technical Officer (T-8) at KVK, Narakkal, 1 January 1994.

Shri Bastian Fernando, Technical Officer (T-6) as Technical Officer (T-7) at Tuticorin, 2 January, 1994.

Shri V. Rajendran, Technical Officer (T-6) as Technical Officer (T-7) at Cochin, 1 July 1994.

Shri P.K. Mahadevan Pillai, Technical Officer (T-6) as Technical Officer (T-7) at Cochin, 1 July 1994.

Smt K.S. Leela Bhai, Technical Officer (T-5) as Technical Officer (T-6), 1 July 1995.

Shri P. Raghavan, Technical Officer (T-5) as Technical Officer (T-6), 1 July 1995.

The following Technical staff have been promoted.

From 1 January 1995

Shri N. Palanisamy, Technical Assistant (T-II-3) as Senior Technical Assistant (T-4).

T-2 to T-1-3

Shri H. Vasu, Serang

Shri P. Muthukrishnan, Skin Diver

Shri B.B. Chavan

Shri K. Ahamed Kamal Basha

Shri T.B. Harikantra

Shri Balan K. Katkar

Shri M. Surajsingh Zala

Shri Govindnath Chudasama

T-1 to T-2

Shri C.H. Vamana Naik

Shri R. Appayya Naik

Shri K.N. Pushkaran

Shri Thomas Kuruvila
Shri V.R. Arunachalam
Shri K.C. Pradeepkumar
Shri V. Sethuraman
Shri K. Jayabalan
Shri A. Gandhi

Shri Sanjaykumar Dana
Shri K.G. Baby
Shri A.Y. Jacob
Shri P. Venkataramana

Shri N. Burayya
Shri P. Achayya
Shri K.G. Kalbate

Shri Paul Sigamony
Shri G. Unnikrishnan
Shri M.M. Bhaskaran,

From 1 July 1995

Shri D.D. Sawant

Shri Kishore Regunath Mainkar
Shri Obharami S. Malinmani
Shri S. Hemasundara Rao

Shri V.K. Suresh

Shri A. Udayakumar

Shri Narayan G. Vaidya

Shri R. Ponniah

Shri D. Gnanajebamani, Assistant as Superintendent, 16 October 1995.

Smt P.V. Mary, Assistant as Superintendent, 29 December 1995.

Shri C. Yohannan, Stenographer as Superintendent, 29 December 1995.

Shri K.M. Surendran, Stenographer, as Senior Stenographer, 26 December 1995.

Shri C.G. Thomas, Junior Stenographer as Stenographer, 27 December 1995

Smt N. Ambika, Junior Stenographer as Stenographer, Cochin, 18 January 1996.

Smt N. Yesoda, Junior Stenographer as Stenographer, Cochin, 7 February 1996.

Shri M. Suseela, Senior Clerk as Assistant, 29 December 1995.

Shri S.K. Murali, Senior Clerk as Assistant, 28 October 1995.

Shri K. Sadanandan, Junior Clerk as Senior Clerk, 8 November 1995.

Smt P.S. Sumathy, Junior Clerk as Senior Clerk, 26 December 1995.

Smt Ponnamma Radhakrishnan, Junior Clerk as Senior Clerk, 29 Dec 1995.

Shri P.S. Alloyicious, SSG-I (Fieldman) as Field Assistant (T-1), 25 October 1995.

Shri P.K. Ravindran, SSG-I (Watchman) as Junior Clerk, 28 December 1995.

Shri W. Sathyawan Neelraj, SSG-I (Fieldman) as SSG-II (Fieldman) 13 November 1995.

Shri N. Rajavelu, SSG I (Watchman) as SSG II (Watchman) at Mandapam, 30 January 1996.

Shri P. Villan, SSG II (Fieldman) as Field Assistant (T-1) at Mumbai, 11 January 1996.

Transfers

Shri M.E. Rajapandian, Scientist (SG) from Karwar to Tuticorin.

Shri R. Sarvesan, Scientist (SG) from Visakhapatnam to Madras.

Shri A. Raju, Scientist (SG) from Kakinada to Mandapam Camp.

Shri R. Thiagarajan, Scientist (SG) from Madras to Mandapam Camp.

Shri T.R. Srikumaran, Oilman (T-11-3) from Headquarters to Vizhinjam Research Centre.

Shri P.M.A. Muheedu, Deckhand (T-1-3) from Visakhapatnam to Mandapam.

Shri K. Sasidharan Pillai, Junior Technical Assistant (T-2) from Vizhinjam to Quilon Field Centre.

Shri Unnikrishnan, Junior Technical Assistant from Quilon Field Centre to Vizhinjam.

Shri B. Raju, Field Assistant (T-1) from Goa Field Centre to Vizhinjam.

Shri B. Devadas Puthran, Assistant from Calicut to Cochin.

Shri B. Raju, Field Assistant (T-1) from Karwar to Goa Field Centre.

Shri Ganesh R. Nadig, Junior Clerk from Karwar to Vizhinjam.

Inter-institutional transfers

Dr A.D. Diwan, Principal Scientist from CMFRI, Cochin to CIFE, Mumbai.

Shri N. Viswanathan, Technical Assistant (T-11-3) from ICFRI, Jhansi to CMFRI, Cochin.

Deputation abroad

Dr C.S. Gopinadha Pillai, Principal Scientist attended the Workshop on Indian Ocean conservation affairs at Mombassa, Kenya and gave a lecture on the status of Indian coral reefs and some strategies for their conservation, 28 November - 1 December.

Dr D.B. James, Senior Scientist served as FAO consultant on Sea Cucumber Culture at Laama Atoll in Maldives, 12-22 December.

Dr G. Maheswardu, Scientist (SS) returned after deputation for DBT, Overseas Associateship at the Department of Ecology, Evolution and Organismal Biology, Tulane University, New Orleans, January 1996.

Retirements

Shri K.C. Yohannan, Technical Officer (T-5) on superannuation, 31 August.

Shri K.N. Rasachandra Kartha, Technical Officer (T-7) on superannuation, 30 November.

Shri K. Kumaran, SSG III (Fieldman) on superannuation, 29 February.

Weddings

Shri N.K. Harshan, Field Assistant (T-1) at Cochin married Kum K. Bindhumol, 5 November.

Shri N.P. Ramachandran, Field Assistant (T-1) at Cochin, married Kum K. Susmitha, 4 February.

Obituary

Shri M. Enose, Technical Assistant (T-1-3) expired on 13 November.