



CIFT

Newsletter



IN THIS ISSUE

Training Programmes	3
Outreach Programmes	3
Exhibitions	3
Celebrations	8
Personnel News	9
Personalia	12

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Honour for Director, ICAR-CIFT

Dr. C.N. Ravishankar, Director, ICAR-CIFT, Kochi has been conferred with the Fellowship of National Academy of Agricultural Sciences, New Delhi in the field of Fisheries. Dr. Ravishankar received the Fellowship in a function held at NAAS Complex, New Delhi on 15th June, 2015. Dr. M.S. Swaminathan, Dr. P.L. Goutham, Chairperson, Protection of Plant Varieties & Farmer's Right Authority and Prof. R.B. Singh, Immediate Past President, NAAS were the dignitaries present on the occasion.



Dr. Ravishankar receiving the award



Dr. Ravishankar being greeted by Dr. M.S. Swaminathan



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Expert Workshop on Food Loss and Wasted Resources

The Food and Agriculture Organization of the United Nations (FAO) and ICAR-CIFT, Kochi jointly organized an Expert Workshop on “Estimating food loss and wasted resources from gillnet and trammel net fishing” at Kochi during 8-10



Dr. Petri Suuronen speaking on the occasion



Workshop in progress



Dr. C.N. Ravishankar delivering the inaugural address

April, 2015. The Workshop brought together experts from India, Bangladesh, Egypt, Indonesia, Tanzania, Thailand, United States of America and Vietnam. The Workshop was formally inaugurated by Dr. C.N. Ravishankar, Director, ICAR-CIFT, Kochi.

During the three-day Workshop, experts discussed and agreed on a methodology inclusive of all the value chain, for estimating loss of fish during gillnet and trammel net fishing operations, including potential sites to test the methodology. Dr. Petri Suuronen, FAO Fishery Industry Officer noted that, “It is very important to understand and quantify the sources of food loss in gillnet and trammel net fishing operations to identify technological and management options to reduce food loss from these fishing operations.”



Participants of the Workshop

Secretary, DARE and DG, ICAR Visits CIFT-CMFRI Complex, Visakhapatnam

Dr. S. Ayyappan, Secretary, DARE, Govt. of India and Hon'ble DG, ICAR visited CIFT-CMFRI Complex, Visakhapatnam on 9 May, 2015. After a quick detour to the laboratories, an interactive meeting was held with all scientists, technical, administrative and supporting staff of both CIFT-CMFRI Regional Centres. During the occasion, Dr. M.M. Prasad, Principal Scientist, ICAR-CIFT and Dr. S. Ghosh, SIC, VRC of CMFRI briefed on research and other activities of both the Research Centres. Later Dr. Ayyappan addressed the gathering. All the scientists of both Centres briefed on the



Dr. Ayyappan, DG, ICAR with Dr. M.M. Prasad and Dr. S. Ghosh

research projects and future plan of works to the DG. Dr. Ayyappan stressed that the scientist community should come out with world class output as there are no dearth for funds and facilities. During the interactive meeting with all categories of staff, the DG discussed the personal and professional problems and invited ideas for further progress of ICAR with special reference to Vision 2050. At the end of the programme Dr. U. Sreedhar, Principal Scientist proposed vote of thanks.



Dr. Ayyappan with staff of ICAR CIFT-CMFRI at Visakhapatnam

Training Programmes

Kochi

1. Molecular characterization of *Aeromonas* sp. isolated from fish disease outbreak (1 April – 30 May)
2. Chitinase from *Paenibacillus elgii*: Production and purification (1 April – 30 May)
3. Characterization of chitinase from *Paenibacillus elgii* (6 April – 5 June)
4. Characterization of biocellulose from bacteria (6 April – 5 June)
5. Characterization of *Staphylococcus aureus* from aquatic environment (6 April – 5 June)
6. Antibiotic resistance in aquaculture farms (6 April – 5 June)

7. Antibacterial activity of *Bacillus* and *Pseudomonas* strains against fish pathogens (6 April – 5 June)
8. Thermal and non-thermal food processing technology (20 April – 20 May)
9. Molecular characterization of *E. coli* (13-22 May)
10. Laboratory techniques in microbiological examination of seafood (1-12 June)
11. Advances in food processing technology (1-20 June)
12. Process engineering in fisheries (15-26 June)
13. Biochemical quality evaluation of fish and fishery products (23-26 June)

Visakhapatnam

1. Preparation of value added fish products (16 June)

Outreach Programmes

During the quarter the following outreach programmes were conducted by the Institute:

1. Training on Square mesh fabrication at Malvan, Maharashtra on 4 May, 2015.
2. Stakeholders meet under the DST project on 'Food safety interventions for women in fishery based microenterprises in coastal Kerala' at Moothakunnam, Kerala on 5 June, 2015.
3. Training cum demonstration programme on Improved harvest and post harvest technologies at Motihari, Purva Champaran, Bihar during 24-26 June, 2015.

Exhibitions

The Institute participated in the Exhibition held in connection with 'Advantage Jharkhand – Food processing investor's meet' held at Ranchi during 23-24 April, 2015.



Dr. M.M. Prasad explaining technological knowhow of products to Additional Secretary, Govt. of Jharkhand

Mini-Value Added Fish Product Preparation Facility Established in Motihari

ICAR-CIFT Visakhapatnam Research Centre conducted a three day Training cum Demonstration Programme under Tribal Sub Plan at Motihari, District Purva Champaran, Bihar during 24-26 June, 2015. The programme has benefitted

68 fishers belonging to economically under-privileged ST&SC groups. Under the programme, a "Mini-Value Added Fish Product Preparation Facility" was established providing all inputs on gratis for the benefit of fishers of East Champaran



Shri Nishat Ahmad addressing the audience



Demonstration of value added fish products

district. The facilities are established to help the sustainable growth of fisheries in Motihari and also for promotion and development of entrepreneurial skills among the fishers.

The programme was inaugurated by Shri Nishat Ahmad, Director, Department of Fisheries, Government of Bihar. In his inaugural address he lauded the efforts made by ICAR-CIFT in the form of different training cum demonstration programmes for the development of fisheries sector in Bihar. Dr. M.M. Prasad, Principal Scientist, ICAR-CIFT presided over the function. Shri Vinay Kumar, DFO, Motihari, Purva Champaran offered felicitations.

During the programme, the participants were given lectures, followed by demonstrations on hygienic handling of fish at different stages right from harvest to post harvest, product development, storage till it reaches the consumer/plate, factors influencing the quality of fish and measures to control, preparation of different value added fish products etc. Use of eco-friendly fishing gears like foldable fish traps were demonstrated in Motihari.

Honourable Prime Minister Shri Narendra Modi envisions that the whole country will be productive when every one is involved in production of some merchandise. Taking this as cue ICAR-CIFT established “Mini-Value Added Fish Product Preparation Facility” for the first time in the

country with the following aims:

1. The major hindrance for follow up of any training cum demonstration is lack of facilities though, talent exists.
2. Financial support is another hindrance to initiate the implementation of techniques demonstrated.
3. The financial resources from different quarters is not helpful as prospective entrepreneurs are not aware of materials source for startup.
4. One way to overcome the problem is to provide all inputs on gratis to facilitate the take-up of technologies.

Fish traps, gillnets, insulated fish bags and heat sealers were provided to start preparation of value added fish products *sans* any investment on machinery. Thus foundation was laid for establishment of “Mini-Value Added Fish Product Preparation Facility”, first of its kind in the country in Motihari.

At the end of the programme a feedback session was held and the outcome revealed that all the participants are very much satisfied with the programme taken up by ICAR-CIFT and more such programmes were requested by the participants. Though women fisher trainees constitute only 8.82% all have shown keen interest in starting the production of value added fish products.

ICAR-CIFT hosts ICAR South Zone Sports Tournament

The ICAR Inter-Institutional Sports Tournament–2015 hosted by ICAR-CIFT, Kochi was held during 25-29 May, 2015. Six hundred and thirteen participants from 23 ICAR Institutes in the southern states of Kerala, Tamil Nadu, Karnataka, Andhra Pradesh and Telangana participated in the tournament. The tournament was held in different venues including Maharaja’s College grounds and Rajiv Gandhi Indoor Stadium.

Dr. K.N. Raghavan, IRS, Commissioner of Customs, Kochi declared the tournament open in the inaugural function presided over by Dr. C.N. Ravishankar, Director, ICAR-CIFT,

Kochi on 25th May. Speaking on the occasion, Dr. Raghavan opined that sports play an important role in moulding a complete person with a healthy mind and healthy body. While welcoming the participants, Dr. Ravishankar explained the genesis of ICAR Sports tournaments during the Golden Jubilee Year of ICAR in 1979, when the then Director General of ICAR, Dr. M.S. Swaminathan instituted the tournament as per the proposal given by ICAR-CIFT, Kochi. While offering felicitations, Dr. A. Gopalakrishnan, Director, ICAR-CMFRI, Kochi hoped that the tournament will set new records. After the oath taking ceremony, Dr. P. Pravin, Organizing Secretary, proposed the vote of thanks.



Dr. Raghavan declaring the tournaments open. On the dias are Shri R.C. Sinha, Director, CIFNET, Dr. A. Gopalakrishnan, Director, ICAR-CMFRI, Dr. C.N. Ravishankar, Director, ICAR-CIFT and Dr. P. Pravin, Organizing Secretary

All the athletic events (100 m, 200 m, 400 m, 800 m, 1500 m race, 4x100 m relay, long jump, high jump, javelin, shot put and discus throw) and two games (Football and Kabaddi) were held at Maharaja's College grounds. Five km cycle race was held at the Cochin Port Trust grounds, Willingdon Island. Volleyball (smashing), Badminton, Basketball, Table tennis, Carom and Chess were held at the Rajiv Gandhi Indoor Stadium and Volleyball (shooting) was held at the premises of Fire Station, Kadvanthra. Smt. P. Jeyanthi of ICAR-CIFT, Kochi became the individual athletic champion (women) and the individual athletic championship (men) was shared by Shri Paulose Jacob Peter of ICAR-CMFRI, Kochi and Shri M.K. Samson of ICAR- NAARM, Hyderabad. The overall Winner and the Runners up of the year were ICAR-CMFRI, Kochi and ICAR-IIHR, Bengaluru,



Handing over the torch



A view from athletic competition

respectively.

The closing ceremony was held on 29 May, 2015 at 10 AM. Shri T.C. Yohannan, Olympian and Arjuna Award Winner was the Chief Guest for the function. He distributed the prizes and declared the meet as closed. ICAR-NAARM, Hyderabad will host the next meet.

ICAR-CIFT Came Out with Flying Colours in South Zone Sports Meet

The contingent from ICAR-CIFT, Kochi came out with flying colours at the ICAR South Zone Sports Meet held at Kochi. Smt. P. Jeyanthi became the individual athletic champion (Women) with one first position and three second positions [100 m dash (Women) – First, 200 m dash (Women), Long

jump (Women) and High jump (Women) – Second]. Shri P.G. David was Third in 200 m dash (Men). The 4 x 100 m relay (Men) team from the Institute consisting of Shri G. Vinod, Shri Ramesh Mirdha, Shri A. Vinod and Shri P.G. David came out in third position by clocking 54.30 Sec. Shri



Smt. Jeyanthi receiving the individual championship



ICAR-CIFT Foot ball team with the Winners trophy



Devananda Uchoi was in third position in Long Jump (Men). Shri K.C. Anish Kumar and Shri K. Ajeesh grabbed the Second and Third position in High Jump (Men). In Carrom (Men) Shri K. Raja Saravanan was the Winner. Smt. Tessy Francis and Smt. N. Karthika became the Winner and Runner up

respectively in Chess (Women). Smt. K.G. Sasikala and Dr. J. Bindu were the Badminton (Women) Doubles Winners. The ICAR-CIFT team were the Winners in Foot Ball and Runner up in Volley Ball (Smashing).

Publications

Research Papers

1. Balasubramaniam, S., Charles Jeeva, J. and Ashaletha, S. (2015) – Socio-economic factors influencing technology adoption among fishermen operating motorized fishing craft, *Fish. Technol.*, **52(2)**: 123-129.
2. Femeena Hassan, Muhamed Ashraf, P., Geethalakshmi, V. and Sankar, T.V. (2015) – Quality assessment of chromatophores isolated from squid skin as natural pigment formation of lipstick, *J. Sci. & Ind. Res.*, **74**: 171-175.
3. Jeyanthi, P., Nikita Gopal, Murthy, L.N. and Geethalakshmi, V. (2015) – Employment status of women in the seafood processing sector of Gujarat, *Fish. Technol.*, **52(2)**: 135-139.
4. Kamalakanth, C.K., Srinivasa Gopal, T.K., Joshy, C.G., Ginson, J. and Ravishankar, C.N. (2015) – Optimization of physical properties of ready to cook fish-incorporated noodles using response surface methodology, *Fish. Technol.*, **52(2)**: 109-117.
5. Muhamed Ashraf, P., Saly N. Thomas and Leela Edwin (2015) – Development of graphene - nano multi sized cerium oxide-incorporated aluminium and its electrochemical evaluation, *Appl. Nano Sci.*, DOI 10.1007/s 13204-015-0438-2
6. Parthiban, F., Sankar, T.V. and Anandan, R. (2015) –

Changes in soluble protein and actomysin during chilled and frozen storage of Tilapia (*Oreochromis mosambicus*), *Fish. Technol.*, **52(2)**: 101-108.

7. Swamy Kumar, M., Rajeswari, G. and Kishore, B. (2015) – Food and feeding habits of *Johnius carutta* (Bloch, 1793) off Visakhapatnam, East-coast of India, *Fish. Technol.*, **52(2)**: 88-94.
8. Visnuvinayagam, S., Toms C. Joseph, Murugadas, V., Chakrabarti, R. and Lalitha, K.V. (2015) – Status of Methicillin-resistant and multiple drug resistant *Staphylococcus aureus* in fisheries of Cochin and Mumbai cost, India, *J. Environ. Biol.*, **36**: 571–575.
9. Yathavamoorthi, R., Nithin, C.T., Ananthanarayanan, T.R., Suseela Mathew, Bindu, J., Anandan, R., Anuraj, K.S., Shama, K. and Srinivasa Gopal, T.K. (2015) – Utilization of tuna waste silage as a novel pig feed ingredient, *Fish. Technol.*, **52(2)**: 118-122.

Book

Pravin, P., Remesan, M.P., Madhu, V.R. and Boopendranath, M.R. (2015) – Trawl design developed at CIFT for small and medium mechanized vessels (In Hindi), 108 p.

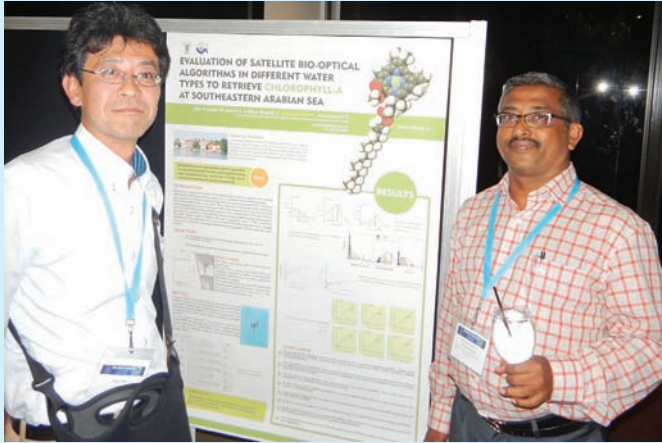
Leaflets

Four leaflets in Hindi were published during the period under report.



Deputation Abroad

Dr. P. Muhamed Ashraf, Principal Scientist, Fishing Technology Division was deputed to Cairns, Australia to attend the Blue Planet Symposium held during 25-29 May, 2015. Dr. Muhamed Ashraf also presented a paper entitled, "Evaluation of satellite bio-optical algorithms in different water types to retrieve chlorophyll a at South eastern Arabian Sea" by P. Minu, V.P. Souda, Aneesh A. Lotliker, S.S. Shaju, P. Muhamed Ashraf and B. Meenakumari.



Dr. Muhamed Ashraf (Left) at the Symposium venue

Research Advisory Committee Meeting

The 3rd Meeting of the Institute Research Advisory Committee was held on 21 April, 2015 at Head Quarters under the Chairmanship of Dr. V. Prakash, Former Director, CFTRI, Mysore.



RAC meeting in progress

Institute Research Council Meeting

The Annual Meeting of the Institute Research Council was held at Head Quarters during 27-28 April, 2015. The house discussed in detail the progress achieved in the ongoing research projects during 2014-15 and finalized the work



IRC meeting in progress

plan for 2015-16. Six ongoing projects, seven new projects and 12 concluded projects were discussed. The following are the new projects proposed to be initiated during 2015:

1. Investigations on fish behavior and responsible fishing systems (Dr. V.R. Madhu)
2. Design development and standardization of deep sea fishing vessel and gear systems for commercial operation (Shri M.V. Baiju)
3. Marine biomolecules – Characterization and utilization for nutraceutical, biomedical and industrial applications (Dr. K.K. Asha)

Participants of IRC meeting





4. Modelling studies for estimation of revenue-based capacity and valuation of selected fishing systems and fish supply chain analysis (Smt. P. Jeyanthi)
5. An assessment of the impact of S&T outputs of ICAR-CIFT on the socio-economic fabric of fisheries stakeholders (Dr. S. Ashaletha)
6. Molecular heterogeneity and bio-prospecting of aquatic and fish microbes for novel molecules and genes (Dr. Toms C. Joseph)
7. Quality improvement of Indian fishing fleet and engineering interventions in post harvest sector (Shri M. Nasser)

Official Language Implementation

Technical Talk

As part of Official Language Implementation Programme, **Shri Rakesh M. Raghavan**, Technical Assistant, Extension, Information and Statistics Division gave a talk on 'Fisheries sector and maritime security: Duties and responsibilities' in Hindi at Head Quarters on 10 June, 2015.



Shri Rakesh M. Raghavan giving the talk

Celebrations

Foundation Day

The Institute celebrated its 58th Foundation Day on 29 April, 2015. Dr. M. Anandaraj, Director, ICAR-Indian Institute of Spices Research, Kozhikode was the Chief Guest of the day. Representatives of different categories of the retired staff of the Institute were also honoured on the occasion.



Dr. M. Anandaraj inaugurating the Foundation Day Celebrations

Anti Terrorism Day

The Institute observed 21 May, 2015 as Anti Terrorism Day. On the occasion, the Director and staff of the Institute assembled at the front lobby of the Institute and took Anti Terrorism Day Pledge.

World Environment Day

The Head Quarters celebrated World Environment Day on 5 June, 2015 by planting tree saplings around the campus.

The Veraval Research Centre of ICAR-CIFT observed World Environment Day and Swachh Bharat Abhiyan on 5



Shri R. Anil Kumar, Administrative Officer planting a sapling

June, 2015 by planting tree saplings around the campus and cleaning the office premises.



Cleaning of office building and premises of the Centre

World Ocean Day

The Veraval Research Centre of ICAR-CIFT observed World Ocean Day on 6 June, 2015.

Participation in Seminars/Symposia/Workshops etc.

- **Dr. C.N. Ravishankar**, Director – Interactive meeting of Vice Chancellors of Agricultural Universities and ICAR Directors, New Delhi (14-16 May)
- **Dr. C.N. Ravishankar**, Director – Silver Jubilee celebrations of National Academy of Agricultural Sciences, New Delhi (4 June)
- **Dr. T.V. Sankar**, HOD, QAM – Technical committee meeting on Risk assessment for import of fish and fishery products to India, New Delhi (18 June)
- **Dr. T.V. Sankar**, HOD, QAM – Meeting of the Shadow Committee for Codex – Committee on Fish and fishery products, New Delhi (18 June)
- **Dr. T.V. Sankar**, HOD, QAM – Consultation meeting on Developing guidelines for microbiological risk assessment, FSSAI, New Delhi (19-20 June). Dr. Sankar also gave a talk on “Characterization of microbial hazards in fish and fishery products” in the Meeting.
- **Dr. Leela Edwin**, Acting HOD, FT – Trainers training programme on Moving towards sustainability, ICAR-CMFRI, Kochi (22 May) (As resource person). Dr. Edwin also delivered a talk on ‘Energy saving in fishing boats’ in the Programme.
- **Dr. Leela Edwin**, Acting HOD, FT – 10th Session of the Academic Council, KUFOS, Kochi (18 June)
- **Dr. Leela Edwin**, Acting HOD, FT and **Shri M.V. Baiju**, Senior Scientist – State level expert panel discussion on Issues in fisheries sector, Kollam (21 May)
- **Dr. Leela Edwin**, Acting HOD, FT and **Shri M.V. Baiju**, Senior Scientist – Fourth Annual review workshop of National Agricultural Science Fund, ICAR, New Delhi (28-29 May)
- **Dr. G.K. Sivaraman**, SIC, **Veraval** – Seminar on National mission on conservation of shark, ICAR-CMFRI Research Centre, Veraval (17 June)
- **Dr. G.K. Sivaraman**, SIC, **Veraval** – Technical session on Scientific writing, ICAR-CMFRI Regional Centre, Veraval (18 June)
- **Dr. L.N. Murthy**, SIC, Mumbai – Workshop on Strategies to enhance adaptive capacity to climate change in vulnerable regions, ICAR-CMFRI Regional Centre, Mumbai (17 June)
- **Dr. L.N. Murthy**, SIC, Mumbai and **Dr. S. Visnuvinayagam**, Scientist – Meeting on Slurry ice project work and live fish transportation, MPEDA, Mumbai (15 May)

Personnel News

- **Dr. L.N. Murthy**, SIC, Mumbai, **Dr. S. Visnuvinayagam** and **Dr. A. Jeyakumari**, Scientists – Meeting on the new project component inclusion in the ongoing project for the benefit of fisherman of Maharashtra region, ICAR-CMFRI Regional Centre, Mumbai (12 May).
- **Dr. L.N. Murthy**, SIC, Mumbai, **Dr. S. Visnuvinayagam** and **Dr. A. Jeyakumari**, Scientists – ‘RuTAG workshop’ for the potential technological interventions in fruit processing and fisheries, IIT Powai Campus, Mumbai (22 May)



Dr. L.N. Murthy explaining the post harvest losses in fishes at the Workshop

- **Dr. M.M. Prasad**, Principal Scientist – Advantage Jharkhand – Food processing investors meet, Ranchi (23-24 April). Dr. Prasad also delivered an invited lecture on ‘Post harvest fisheries development in Jharkhand: ICAR-CIFT as hand holder’ in the Meeting.



Dr. M.M. Prasad delivering the lecture

- **Dr. M.M. Prasad**, Principal Scientist – Workshop on Space technologies for identifying water bodies, Ranchi (24 April). Dr. Prasad also delivered an invited talk on “Role of small water bodies for sustainable development of fishers belonging to ST groups” in the Workshop.



- **Dr. Saly N. Thomas**, Principal Scientist – Syllabus committee meeting for the proposed M.F.Sc. course on Fisheries Engineering and Technology, ICAR-CIFE, Mumbai (18 May). Dr. Saly also gave an invited talk on “Present status and future prospects of Indian fishing industry with special focus on gillnetting” at the Institute.
- **Dr. Saly N. Thomas**, Principal Scientist – Meeting of the State level guidance council of Matsya Samrddhi Programme of Govt. of Kerala, Thiruvananthapuram (29 June)
- **Dr. P. Pravin**, Principal Scientist – Project proposal workshop meeting on ‘Development of computer vision based technology for automating fish abundance data generation’, IIT, New Delhi (15 May)
- **Dr. P. Pravin**, Principal Scientist – Workshop on Management of marine fisheries in Karnataka, Bengaluru (3 June)
- **Dr. P. Pravin**, **Dr. M.P. Remesan**, Principal Scientists and **Shri M.V. Baiju**, Senior Scientist – Meeting of group leaders and owners of traditional ring seine, Vypin, Kochi (27 June). Dr. Remesan also made a presentation on The history and present status of ring seine fishing in India in the Meeting.
- **Dr. R. Raghu Prakash**, Principal Scientist – Workshop on Fisheries, aquaculture, oil and natural gas and tourism sector policy level plans, Visakhapatnam (25 May) (As resource person).
- **Dr. R. Raghu Prakash** and **Dr. U. Sreedhar**, Principal Scientists – National seminar on Marine biodiversity and management of coastal ecosystems, Visakhapatnam (8-9 April). They also presented the following papers in the Seminar:
 1. Fishing technology interventions for conservation of marine biodiversity by R. Raghu Prakash, G. Rajeswari and U. Sreedhar
 2. Distribution of deep sea fishes from the exclusive economic zone of India by U. Sreedhar, S. Lavanya, B. Prema Raju, K. Rishinadha Rao and R. Raghu Prakash
- **Dr. U. Sreedhar**, Principal Scientist – Review meeting of the project, ‘Validation of tuna advisories’, INCOIS, Hyderabad (28 April)
- **Dr. U. Sreedhar**, Principal Scientist – Earth Day Celebrations sponsored by Ministry of Earth Sciences and organized by Lights Research Foundation and Vignan Group of Educational institutes at Vignan High School, Guntur (30 April). Dr. Sreedhar was the resource person and the Guest of Honour of the function.



Dr. Sreedhar delivering his address at Guntur

- **Dr. U. Sreedhar**, Principal Scientist – Orientation course for the Lecturers and Assistant Professors working at various affiliated colleges and universities in India, Andhra University Staff College, Visakhapatnam (19 May). Dr. Sreedhar also delivered a lecture on “Deep sea resources of Indian EEZ” in the Programme.



Dr. Sreedhar giving lecture at Visakhapatnam

- **Dr. S. Ashaletha**, Principal Scientist – Brain storming on ‘Extension research in National Agricultural Research and Extension Systems of Kerala: Current progress and future perspectives’, ICAR-CTCRI, Thiruvananthapuram (18 April)
- **Dr. P. Muhamed Ashraf**, Principal Scientist – International conference on Advances in materials, manufacturing and application, NIT, Trichy (9-11 April). Dr. Ashraf also presented a paper entitled, “Electrochemical characteristics of nano cerium oxide-MWCNT-incorporated aluminium in marine environments” by P. Muhamed Ashraf.
- **Dr. P. Muhamed Ashraf**, Principal Scientist – Annual review meeting of SATCORE project, INCOIS, Hyderabad (29 April)
- **Dr. P. Muhamed Ashraf**, Principal Scientist – Blue Planet Symposium, Cairns, Australia (25-29 May). Dr. Ashraf



also presented a paper entitled, "Evaluation of satellite bio-optical algorithms in different water types to retrieve chlorophyll a at Southeastern Arabian Sea" by P. Minu, V.P. Souda, Aneesh A. Lotliker, S.S. Shaju, P. Muhamed Ashraf and B. Meenakumari.

- **Dr. Femeena Hassan**, Principal Scientist – TSC Meeting of Centre for Food Research and Development, Konni at Kochi (30 June)
- **Shri M.V. Baiju**, Senior Scientist – Meeting for deciding the horse power of fishing boats of Kerala territorial waters and beyond, Thiruvananthapuram (13 May)
- **Shri M.V. Baiju**, Senior Scientist – World Environment Day celebrations, St. Albert's College, Ernakulam (5 June). Shri Baiju gave a lecture on 'Fuel conservation and sustainability in fishing'.
- **Shri M.V. Baiju**, Senior Scientist – Meeting organized by Govt. of Tamil Nadu to discuss about the introduction of new long liners cum gillnetters in Tamil Nadu, Chennai (24 June)
- **Dr. B. Madhusudana Rao**, Senior Scientist – Meeting of CFC-INFOFISH project on Freshwater fish products, Chennai (30 April)
- **Dr. B. Madhusudana Rao**, Senior Scientist – Indo-Norwegian workshop on Sustainable production: Food and bio-based science, technology and innovation, Chennai (30 April)
- **Dr. B. Madhusudana Rao**, Senior Scientist – Collaborative state level research-industry-farmer-extension interaction workshop on Freshwater aquaculture development in Odisha, Bhubaneswar (27-28 June)
- **Dr. S.K. Panda**, Senior Scientist – 6th Meeting of Scientific panel on Fish and fishery products, New Delhi (7 May). Dr. Panda also presented the standards developed on fish and fishery products and status of FSSAI funded short term project on 'Pesticide and antibiotic residues in fish and fishery products' in the Meeting.
- **Dr. S.K. Panda**, Senior Scientist – Seminar on Food control, New Delhi (23-24 June)
- **Dr. C.O. Mohan**, Scientist – Workshop on Energy efficiency in small and medium enterprises, Kochi (27 May)
- **Smt. Arathy Ashok**, Scientist – Organizing committee meeting of 'Swasraya Bharat – 2015', ICAR-IISR, Kozhikode (6 June)
- **Shri Ankur Nagori**, Scientist – Workshop on Making

engineering scientist's contribution more meaningful to stakeholders and the nation, New Delhi (13 April)

- **Dr. R. Venkateswarlu, Dr. P.K. Binsi and Shri S. Sreejith**, Scientists – International conference on Natural polymers, biomaterials, their composites, nano-composites, blends, IPNs, polyelectrolytes and gels, M.G. University, Kottayam (10-12 April). They also presented the following research papers in the Conference:
 1. Physical and anti-microbial properties of water soluble chitosan and polyvinyl alcohol composite films by R. Venkateswarlu, A.P. Ashigha Pan, S.K. Panda, C.O. Mohan, J. Bindu and A.A. Zynudheen
 2. Development and characterization of bio-ceramic natural hydroxyapatite composite from fish scale by P.K. Binsi, A.A. Zynudheen and C.N. Ravishankar
 3. Preparation and characterization of gelatin based nanoparticles from the filleting wastes of Blackspotted croaker fish (*Protoniba diacanthus*) by S. Sreejith, Mahesh P. Samanth, Aravind R. Singh, Dushyant C. Kothari and G. Venkateswarlu
- **Dr. P. Viji**, Scientist – Workshop on Subsidies for the women collectives, Visakhapatnam (21 May) (As resource person). Dr. Viji also gave a talk on 'Value addition in fish processing sector' in the Workshop.
- **Shri K. Ahamed Basha**, Scientist – 'Agri Search 2050', ICAR, New Delhi (18 May)
- **Shri S. Sreejith**, Scientist – Seminar on Advancements in polymeric green composites, Centre for Bio Polymer Science and Technology, Kochi (15 May)
- **Shri Anuj Kumar**, Scientist – Training programme on Baking science and technology, CFTRI, Mysore (15-19 June)
- **Smt. P.K. Shyma**, Asst. Chief Tech. Officer – Training programme on Priority setting, Monitoring and Evaluation (PME) of agricultural research projects, ICAR-NAARM, Hyderabad (2-6 June)
- **Dr. Santhosh Alex and Dr. P. Shankar**, Senior Tech. Officers – Meeting of Kochi TOLIC, Office of the Income Tax Commissioner, Kochi (21 April)
- **Shri P.J. Davis**, SAO – Workshop on Right to Information Act-2005, Institute of Secretarial Training and Management, New Delhi (27-28 April)
- **Shri M.N. Vinodhkumar and Smt. A.R. Raji**, Assts. – Workshop on Noting and drafting, Institute of Secretarial Training and Management, New Delhi (15-16 April)

Personalia

Appointments

1. Shri R.K. Renjith, Scientist, ICAR-CIFT, Kochi
2. Smt. K.R. Sreelakshmi, Scientist, ICAR-CIFT, Kochi
3. Kum. Lekshmi R.G. Kumar, Scientist, ICAR-CIFT, Kochi
4. Kum. E.R. Priya, Scientist, ICAR-CIFT, Kochi
5. Smt. K. Sarika, Scientist, ICAR-CIFT, Kochi
6. Shri P.N. Jha, Scientist, ICAR-CIFT, Kochi
7. Smt. T. Muthulakshmi, Scientist, ICAR-CIFT, Kochi
8. Smt. S.S. Greeshma, Scientist, ICAR-CIFT, Kochi
9. Shri C.S. Tejpal, Scientist, ICAR-CIFT, Kochi
10. Dr. K. Elavarasan, Scientist, ICAR-CIFT, Kochi
11. Shri S. Chinnadurai, Scientist, ICAR-CIFT, Kochi
12. Shri Devananda Uchoi, Scientist, ICAR-CIFT, Kochi
13. Shri P.H. Dhiju Das, Tech. Asst. (Lab. Tech.), Visakhapatnam RC of ICAR-CIFT

Promotions

1. Dr. A.A. Zynudheen, Senior Scientist, ICAR-CIFT, Kochi as Principal Scientist
2. Dr. J. Bindu, Senior Scientist, ICAR-CIFT, Kochi as Principal Scientist
3. Dr. Femeena Hassan, Senior Scientist, ICAR-CIFT, Kochi as Principal Scientist
4. Dr. S. Ashaletha, Senior Scientist, ICAR-CIFT, Kochi as Principal Scientist
5. Dr. R. Anandan, Senior Scientist, ICAR-CIFT, Kochi as Principal Scientist
6. Dr. P. Muhamed Ashraf, Senior Scientist, ICAR-CIFT, Kochi as Principal Scientist

7. Dr. U. Sreedhar, Senior Scientist, Visakhapatnam Research Centre of ICAR-CIFT as Principal Scientist
8. Dr. M. Baiju, Senior Tech. Officer, ICAR-CIFT, Kochi as Asst. Chief Tech. Officer
9. Dr. P. Shankar, Tech Officer, ICAR-CIFT, Kochi as Senior Tech. Officer
10. Shri A.K. Naik, Senior Tech. Asst., Visakhapatnam Research Centre of ICAR-CIFT as Tech. Officer
11. Shri P.S. Sunil Kumar, Tech. Asst., ICAR-CIFT, Kochi as Senior Tech. Asst.

Transfers

1. Dr. R. Venkateswarlu, Scientist, ICAR-CIFT, Kochi to ICAR-IIMR, Hyderabad
2. Shri Karankumar K. Ramteke, Scientist, ICAR-CIFT, Kochi to ICAR-CIFE, Mumbai
3. Shri V. Chandrasekar, Scientist, Veraval Research Centre of ICAR-CIFT to ICAR-CIFT, Kochi
4. Smt. Arathy Ashok, Scientist, Visakhapatnam Research Centre of ICAR-CIFT to ICAR-CIFT, Kochi
5. Dr. P.K. Binsi, Mumbai Research Centre of ICAR-CIFT to ICAR-CIFT, Kochi
6. Smt. V.S. Aleyamma, Asst., Visakhapatnam Research Centre of ICAR-CIFT to ICAR-CIFT, Kochi

Retirements

1. Shri V.V. Remana, Skilled Support Staff, Visakhapatnam Research Centre of ICAR-CIFT
2. Shri B.M. Ghare, Skilled Support Staff, Mumbai Research Centre of ICAR-CIFT

