

TNFU NEWS LETTER

Vol. 04 No. 10
October 2017

FROM THE DESK OF VICE – CHANCELLOR.....



We have commenced the classes for the students of the new college at Thalainayeru, Nagapattinam dist. We have admitted 23 students this year for the third Fisheries College and Research Institute of TNFU! With this our admission strength for B.F.Sc. is increased to 150 per year!

With the initiative of NABARD, Chennai we have organised a Brain storming session on "Climate change & mitigation in Fisheries and Aquaculture". This exercise was mainly to help our faculty to develop a few major proposals for funding support. I am thankful to Dr.S.N.A. Jinnah, CGM of NABARD for the way he has been guiding us to avail the funds of NABARD.

The book of "Acts, Statutes, Regulations and Rules" (ASRR) has been brought out for the first time with in a record time 6 months. I congratulate the team involves Dr.G.Sugumar, Dr. Stephan and Dr.N.Felix for the job well done!

We have inaugurated the Shrimp Research Facility at Kanyakumari dist. and Dr. Moss of Hawaii Pacific University, USA visited our facility. He also delivered a lecture in the Workshop arranged at Nagercoil this month. We are planning to have a collaboration with this premier institute to under take research on shrimp.

TNFU would continue to grow on the Vision plan envisaged for its positive progress!

Prof. S. Felix
Vice - Chancellor

EVENTS/MEETINGS

International Workshop on 'Marine Biotechnology and Shrimp Genetics Research' at Nagercoil

An International Workshop on "Marine Biotechnology and Shrimp Genetics Research (IWMS' 2017)" was



conducted at Nagercoil on 27.10.2017 by the Directorate of Centre for Sustainable Aquaculture (DCeSA) of Tamil Nadu Fisheries University (TNFU). Dr. S. Felix, Vice-Chancellor presided over the program. Inaugurating the program, Dr. Shaun M. Moss, Executive Director, Oceanic Institute of Hawaii Pacific University, Hawaii, USA, in his inaugural speech, mentioned the possibility of increasing production of shrimps in India through genetic improvement of species. He also outlined the research and expertise of Oceanic Institute in the genetic improvement of *Penaeus vannamei*. Prof. S. Felix, Vice-Chancellor, in his presidential address, mentioned that the University is actively working for the development of aquaculture and now the University is going to carry out the research in collaboration with Oceanic Institute of Hawaii Pacific University. He also highlighted the need for genetic research in fishes and shrimps as this area is mostly neglected in the country. He expressed his preference for genetic improvement works in shrimps by Post Graduate and Doctoral research students of all the Universities and assured of all assistance by the TNFU. The District Collector, Th. Sajjansingh R. Chanvan also made his presence in the program and felicitated the workshop and appreciated the efforts of Tamil Nadu Fisheries University. Dr. Akshaya Panigrahi, Principal Scientist, Central Institute of Brackishwater Aquaculture, Chennai and Mr. Ravi Kumar Yellanki from Visakhapatnam were the other speakers in the program. Topics such as selective breeding of shrimps, genetic improvement of *Penaeus indicus*, need for the development of indigenous shrimp-based farming systems, challenges in the identification of the suitable species for Indian context, etc., were presented by the speakers. There was also a group discussion at the end of the program in the evening. This program was attended by 100 registered participants that comprised academics and industry people. Earlier Dr. J. Stephen Sampath Kumar, Director, DCeSA and

Convener of IWMS' 2017 welcomed the gathering. Dr. C. Judith Betsy, Assistant Professor, KKGCSA, Ganapathipuram, Nagercoil & Organising Secretary, IWMS' 2017 made the arrangements for the program.

Brain storming session on "Better Planning and Budgeting for Climate Change Adaptation in Aquaculture and Fisheries"

Tamil Nadu Fisheries University in association with National Bank for Agriculture and Rural Development (NABARD) organised a brain storming session on "Better Planning and Budgeting for Climate Change Adaptation in Aquaculture and Fisheries" at the FCRI, Ponneri on 25.10.17.



Inaugurating the workshop, Dr.S.Felix, Vice-Chancellor, TNFU in his inaugural address acknowledged NABARD's continuous support to TNFU especially in infrastructure development of the University. Dr.S.N.A.Jinnah, Chief General Manager, NABARD Regional Office, Chennai, in his address, invited TNFU to act as Centre of Excellence in climate change in fisheries sector by playing a lead role in framing the National and State Action Plan for Climate Change (SAPCC) in fisheries sector. Mr.V.Mashar, DGM, NABARD gave a presentation on "Climate finance for fisheries and aquaculture sector – national and international scenario". He further continued to explain how to write and win a climate change related project from NABARD and also informed about the climate change areas in which TNFU is expected to send project proposals to NABARD. In the valedictory function, bamboo saplings were distributed to the participants of the session. TNFU Staff, Students (PG & Ph.D), progressive farmers and State Fisheries Department officials attended the event.

World Food Day-2017

The World Food Day 2017 was celebrated at CoFE on 16.10.2017. The theme of World Food Day 2017 was "Change the future of migration., Invest in food security and rural development". Dr. S. Balasubramanian, Dean delivered his presidential address on the role of students to improve food security. Various competitions were conducted and prizes

and certificates were given to the participants. The event was coordinated by Dr. P. Karthickumar, Assistant Professor.



Investiture Ceremony at FCRI, Thoothukudi

The Students' Association of FCRI, Thoothukudi for the year 2017-18 was inaugurated on 24th October 2017. Shri. S. Saravanan, IAS, Assistant Collector, Thoothukudi was the Chief Guest. He spoke on the importance of learning not just in class rooms but outside. He emphasized on having a role model to channelise one's life and urged students to contribute to the society. Dr.G.Sugumar, Dean and President of the Students' Association presided over the function and in his presidential address, he congratulated the office bearers for taking up the responsibility and assured them of the administration's support. Dr.S.Athithan, Vice-President of the Students' Association administered the oath of office for the newly elected office bearers and welcomed the gathering. Mr.Subash took over as General Secretary, Mr.Sudhakar as Games Secretary, Ms.H.Benazir as Literary Association Secretary, Mr.M.Manivannan as NSS Secretary,



Ms.S.Devadharshini as Editor of College Magazine and Ms.V.Indhu as Science Club Secretary. The installation ceremony was followed by colorful display of cultural programme by students. Mr.P.Subash, General Secretary proposed vote of thanks.

Guest lecture at FCRI, Ponneri by Dr.K.P.Sivakumaran, Australia

Dr.K.P.Sivakumaran, Environmental Consultant & Project Manager, OTEK Australia, Melbourne visited

Fisheries College and Research Institute, Ponneri on 25.10.2017 and delivered a guest lecture on "India and Sri Lanka in Palk Bay- a proposal for joint fisheries management". In his lecture, he elucidated the importance of joint ventures in fisheries management and governance of



the Palk Bay region. All the faculty members and students attended the lecture. Department of Fisheries Extension of the Institute coordinated the event.

Participation in the District's first 'Book Festival 2017'

Fisheries College and Research Institute, Thoothukudi participated in the District's first 'Book Festival 2017' organized by the District Administration. In the exhibition stall put up by the Institute, a colourful display of live ornamental fish varieties and cultivable food fish varieties was arranged in aquaria and FRP tanks. Marine species such



as shrimps, crabs, lobsters, echinoderms and marine ornamental fishes were also displayed. Educative posters on health benefits of eating fish were also put up to emphasize on consuming fish. This stall was visited by more than 50,000 visitors. Dr.K.Veerabhadran, Professor and Head, Department of Fisheries Extension co-ordinated the entire program with the assistance of other faculty and support staff.

National Unity Day celebrations

FCRI, Ponneri

The National Unity Day commemorating the birth anniversary of Sardar Vallabhai Patel was celebrated on



31.10.2017 at FCRI, Ponneri by conducting drawing competition on the theme 'Unity is Victory' and slogan writing contest among the students. Dr.B. Ahilan, Dean i/c., distributed prizes to the winners. Ms.V.Sandhiya of II B.F.Sc won the first prize in slogan writing contest and Ms.Hermonjisha of III B.F.Sc., won the first prize in drawing competition.

CoFE, Nagapattinam

National Unity Day was celebrated at the CoFE, Nagapattinam on 31.10.2017. Dr. S. Balasubramanian, Dean, delivered the presidential address. He insisted on the importance and necessity for being united. Mr. Manivel (III B.E.), Ms. Ragasudha (III B.E.), Ms. Kopperundevi (II B.E.), Mr. Devasenan (II B.E.), Ms. Ramya (I B.E.), and Ms. Deepika (I B.E.) gave a special speeches on 'National integrity and Sardar Vallabhai Patel'. All faculty, students and non-



teaching staff of the college attended this event. This event was organised by Dr. D. Kesavan and assisted by Mr. Pradeep and Mr. Pandiyaraja, III year students.

'Mann ki Baat'

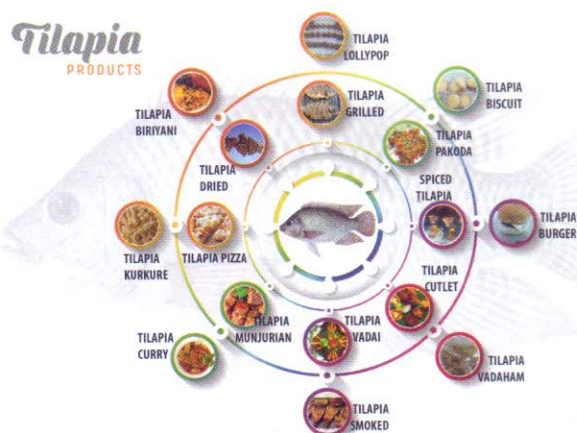
Dr. Mohammad Tanveer, Asst. Professor, CoFE organized the students to watch the recorded program in Tamil addressed by Hon'ble Prime Minister of India, 'Mann ki Baat' on 31.10.2017 at CoFE Seminar Hall.

STUDENTS CORNER

Development of value added products from 'Tilapia-The Future Fish' at Ponneri

To promote the consumption of GIFT Tilapia, various ready to eat and ready to cook products have been developed

by the final year B.F.Sc., students of FCRI, Ponneri from Experiential Learning Programme (ELP) at the FSSAI certified 'Post Harvest Research and Incubation Centre



(PHRIC)' of Department of Fish Processing Technology of the Institute, under the guidance of Dr. N. Muralidharan, ELP Coordinator and Dr. S. Balasundari, Professor and Head. Diversified ready to eat products such as tilapia burger, tilapia pizza, tilapia manchurian, tilapia extruded snack, tilapia briyani, grilled tilpia, tilapia cutlet, tilapia curry in retort pouch, cook chilled tilapia curry, Traditional snack food and ready to cook products like smoked tilapia, marinated chilled tilapia fillet, dried spiced tilapia (whole and steaks), salted tilapia (whole and steaks), have been developed from cage – reared GIFT Tilapia. The Products have been sold in the campus.

Orientation Program for Postgraduate Students at Tuticorin

The orientation program for the 2017-18 batch students of M.F.Sc (25 students) and Ph.D. (seven scholars) was conducted at the FCRI, Thoothukudi on 03.10.2017. Dr.M.Rajakumar, Professor and Head, Department of Fisheries Economics and Ph.D. Co-ordinator welcomed the students and co-ordinated the entire program. The program was initiated by Dr.G.Sugumar, Dean, who extended a warm welcome to the students.

Field visits by CoFE Students

III BE (Fisheries Engineering) students visited Saroja Shrimp Farm located at Melavanjoor on 12.10.2017 and learned various aspects of shrimp farming. They also visited Nambiyar nagar for socio economic study. As part of Renewable Engineering course, the III BE (FE) students were taken to biogas plant at KVK, Sikkal.

"Anti-Dengue measures" conducted

FCRI, Thoothukudi

As directed by the Government to implement Anti-Dengue measures in all the institutes / colleges, a special awareness program on "Anti-dengue measures" was organized at the FCRI, Thoothukudi on 12.10.2017. During

this program, Dr.G.Sugumar, Dean, FCRI, Thoothukudi instructed the staff and students to keep the premises clean and free from mosquitoes and implement anti-dengue



measures. Subsequently, a cleaning campaign was held at the hostel premises on 12.10.2017, 13.10.2017, 14.10.2017 and 16.10.2017. All the inmates of the hostels were involved in cleaning up the premises of the hostels. The cleaning campaign was coordinated by the NSS unit of the institute and overseen by the Vice-President of Student's Association, Deputy Wardens under the direction of the Dean.

❑ CoFE, Nagapattinam

Dengue awareness campaign was organized by the CoFE during the period from 12.10.2017 to 16.10.2017. This campaign included cleaning of college and hostel premises and distribution of dengue awareness pamphlets to the nearby villagers. The students and faculty of the CoFE carried out the campaign in the presence of Dr. S.Balasubramanian, Dean, CoFE. The events were



co-ordinated by Dr. M. Ramar and Dr. D. Kesavan, NSS Program Officers.

❑ FCRI, Ponneri

Traditional Health drink (Nilavembu concoction) was provided to all the staff & students of FC&RI, Ponneri on 13.10.2017 as a part of Health Club activity. Campus cleaning was also done to prevent dengue. Ms.NimshMol Stephen, Assistant Professor, in-charge of Health Club co-ordinated the event.



Search In ME: Video Editing using Camstudio

Twenty four students of first year BE (FE) participated in the one-day program on 'Video editing using Camstudio' conducted at the College of Fisheries Engineering (CoFE), Nagapattinam on 21.10.2017. The students were trained on



basics of video editing and options in Camstudio in this program. This program was conducted by Er. C. Mercy Amrita, Assistant Professor, Department of Basic Engineering.

Awareness program on "Eradication of dengue and anti-dengue measures"

The NSS unit of Fisheries College and Research Institute, Thoothukudi, organized an awareness programme on 'Eradication of dengue and anti-dengue measures' on 30.10.2017. Dr.G.Sugumar, Dean, inaugurated the program and stressed the importance of personal hygiene.



Dr. Silas Jebamani, Resident Medical Officer, Thoothukudi Medical College Hospital delivered a speech on eradication of dengue with special emphasis on controlling the breeding of mosquitoes. The students are being regularly engaged in campus cleaning as part of dengue eradication measures of this institution. Health drink (Nilavembu concoction) against dengue was also distributed to all students and staff of the institute. Mr.T.Ravikumar, NSS Program Officer and Dr.P.Jawahar, Warden of the institute coordinated the event.

FCRI, Thalainayeru Fresher's day

II BE (FE) students of CoFE organized Fresher's day for I B.F.Sc. students of FCRI, Thalainayeru at CoFE on 31.10.2017. The Program was inaugurated by Dr. B. Sundaramoorthy, Dean i/c, FCRI, Thalainayeru. In his presidential address, Dr.B.Sundaramoorthy, highlighted the importance of fisheries science graduates in the development of fisheries sector. Dr. S. Balasubramanian, Dean CoFE welcomed the



students and emphasized the synergetic effect of fisheries engineering and fisheries science graduates for the development of fisheries sector.

RESEARCH HIGHLIGHTS

- Developed earthworm culture (African earthworm - *Eudrilluseuginiae*) methods utilizing agricultural waste and cowdung in cement circular ring with a diameter of 0.9 mt. and 0.3mt. height. Raw cowdung was daily sprayed over agricultural waste - soil substrate.

(Dr. K. Ravaneswaran and
Dr. J. Stephen Sampath Kumar)



- Enterocytozoon hepatopenaei (EHP), a fungal pathogen infecting cultured *Penaeus vannamei* and causing stunted growth and production losses in shrimp farming. Accurate and early detection of this pathogen in the soil and shrimp seeds is essential to avoid the disease outbreak during the culture operation. A multiplex polymerase chain reaction (PCR) technique has been developed by the State Referral Laboratory for Aquatic Animal Health (SRLAAH), TNFU-Madhavaram campus, Chennai for specific detection of EHP in soil and shrimp. This technology will be very useful for screening of EHP in shrimp hatcheries and farms.

(Dr. K. Rijijohn, Dr. A. Uma and Th. T. Anand)

- Breeding program for the indigenous clownfish *Amphiprion sebae* was initiated in the Ramanathapuram Centre for Sustainable Aquaculture (RCeSA) with two pairs of clownfish as early as 11.04.2016. Consequently, new stocks were added to the existing ones through wild collections. At present, RCeSA houses 40 pairs of *Amphiprion sebae* and ten pairs of *Amphiprion percula* clownfish varieties. In order to breed these fishes during April 2017, seven large sized pairs measuring 8 cms and above were segregated and kept in 500 L FRP tanks. Seven such breeding pairs were raised separately for breeding purpose. Out of the seven pairs segregated, two pairs spawned successfully during the month of October 2017. A pair of clownfish measuring 9.3 cm in length and 19.0 gm in weight (male) and 11.2 cm in length and 36.5 gm in weight (female) spawned on 24.10.2017. Another pair of the clownfish measuring 10.4 cm in length and 27.5 gm in weight (male) and 10.2 cm in length and 27.5 gm in weight (female) spawned on 29.10.2017. The eggs were deposited on hard surface and they took five days to hatch. Each spawning pair laid around 260-280 eggs. The hatchlings were healthy and were fed with SS-Rotifers raised on *Nannochloropsis* microalgae. They are fed daily on SS-rotifers.

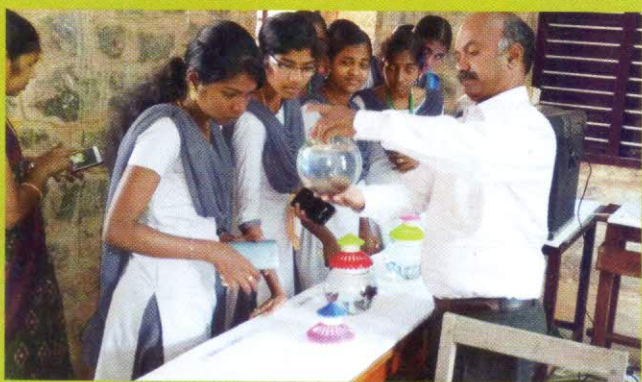


(Dr. C. Anand and Dr. J. Stephen Sampath Kumar)

OUTREACH PROGRAMS

PKKCeSA Participation in Exhibition

The Scott Christian College, Nagercoil organized an exhibition in connection with **Quasquicentennial** celebration (125th Anniversary) from 04.10.2017 to 06.10.2017 at their college campus. Parakkai KK Centre for Sustainable Aquaculture participated in this exhibition and displayed different varieties of ornamental fishes, wild



native fishes, loaches, live feed like tubifex worm in different glass tanks and bowls. Apart from this, value added fishery products were also displayed. Various digital charts on fisheries and brochures were also exhibited for creating awareness on the important aspects of fisheries. Around 5000 school, college students and teachers visited the stall. Dr. K. Ravanewaran, Professor and Head of the centre made all arrangements for this exhibition.

Training on "Ornamental fish culture"

The Department of Fisheries Extension, Fisheries College and Research Institute, Thoothukudi conducted a three-day training on "Ornamental fish Culture" from 04.10.2017 to 06.10.2017. A total of 20 trainees from various districts of Tamil Nadu participated. In this program, various



aspects of ornamental fish culture practices along with demonstrations were taught to the participants. After this exposure, all the participants were taken to ornamental fish farm at Sawyerpuram so as to gain hands-on experience. Dr.G.Sugumar, Dean distributed the participation

certificates to the trainees. The aim of this training program is to provide skill based training in ornamental fish culture which will pave way for self-employment of the trainees. Dr.K.Veerabhadran, Professor and Head, Dept. of Fisheries Extension coordinated the program.

Workshop on "Advanced Fuzzy Logic and Artificial Neural Network"

One-day workshop on 'Fuzzy Logic and Artificial Neural Network' was organized by the CoFE on 06.10.2017. This workshop focused on basic concept of MATLAB, simulink and its applications. A total of ten participants from various Engineering Colleges of Nagapattinam participated. Er. D. Babiyola, Asst. Professor coordinated this program.

Training on "Tilapia culture technology"

Training Program on 'Tilapia culture technology' was conducted from 11.10.2017 to 25.10.2017 at Krishnagiri Centre for Sustainable Aquaculture (KCeSA), Barur in which two extension workers from ASTARC company, Mumbai participated. In this training program, the trainees gained



hands-on experience on cage farming practices, feed preparation, disease management etc.,

Telephonic Advisory Program at TCeSA

A Telephonic Advisory Program organized by the Thanjavur Centre for Sustainable Aquaculture (TCeSA) was conducted on 12.10.2017 and 30.10.2017 for the benefit of fish farmers of Thanjavur district and on 14.10.2017 for the benefit of fish farmers of Ariyalur district. A total of 51 fish farmers participated in these three programs. All the participant farmers and Dr. V. Senthilkumar, Asst. Professor and Head of TCeSA were connected through a server and discussed about the various issues faced by the farmers in fish culture in the region.

Training on "Water sample analysis for aquaculture"

Fisheries College and Research Institute, Ponneri conducted a training program on "Water sample analysis for aquaculture" on 24.10.17. A total of 15 trainees from various parts of Tamil Nadu attended the training. Dr.B.Ahilan, Dean i/c of the institute inaugurated the program. In the training, various aspects in relation to water sample analysis in

aquaculture were taught to the participants by the subject matter specialists of the institute. The participants were also



engaged in practical class by the Faculty of Dept. of Aquatic Environment Management. The training program was coordinated by the Department of Fisheries Extension.

Guest lectures

Mr. T. Anand, Asst. professor, CoFE delivered a guest lecture on "Current trends and newer technologies in vannamei farming and better management practices in vannamei farming" at (i) Sirkazhi on 24.10.2017 and (ii) Vedaranyam on 27.10.2017 for shrimp farmers in programs jointly organized by NFDB and Department of Fisheries, Tamil Nadu.

TNFUA, Chennai

Orientation training on "Statutory matters and court procedures"

A Orientation training on "Statutory matters and court procedures" was conducted at the Tamil Nadu Fisheries University Academy (TNFUA) from 24.10.2017 to 26.10.2017

for State Fisheries Department Officers. This training was useful for the officers who are making decisions in the implementation of Tamil Nadu Co-operative Societies Act 1983 and the Rules 1988 in the State Fisheries Department. Advocates from Madras High Court dealing with co-operative matters delivered the lectures.



Regular in-service trainees field visits

| Date | Place of field visit |
|------------|--|
| 11.10.2017 | RCeSA, Mandapam, Ramanathapuram Dt. |
| | Lobster Fattening Unit, Vedhalai |
| | Pamban fish Landing centre, Premier Liberty sea foods shrimp processing unit, Mandapam |
| 12.10.2017 | Krusadai Island |
| 13.10.2017 | CMFRI, Regional Centre, Mandapam |
| | Seaweed culture units |
| 23.10.2017 | Mettur dam Inland Fishermen Co-operative society, fish feed production and rearing units |
| 24.10.2017 | Thiruchengodu and Konganapuram Co-operative Marketing society |
| 25.10.2017 | Krishnagiri Reservoir and KCeSA, Barur |

Announcement !!!

International Workshop "IIIS' 17-Innovative Integration and Intensification in Indian Shrimp Industry" organized by the FCRI, Ponneri will be conducted at Chennai on 03.12.2017. Those who are interested to attend the program are requested to visit the TNFU website, www.tnfu.ac.in for further information.

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