



flake ice unit, blast freezer, cold storage and other processing machinery of the fish processing plant was explained by Dr. K. Rathnakumar, Professor and Head, Dept. of Fish Process Engineering. Dr. N. Manimehalai, Associate Professor made an awareness training about hygienic handling of fishes. Value added fish products like fish noodles, fish sandwich and fish burger preparations were also demonstrated by Dr. K. Rathnakumar and Dr. R. Brimasureeswaran. Forty-three fisher women attended this program.

#### **Awareness cum training on business opportunities in value addition of fish**

An "Awareness cum training program on business opportunities in value addition of fish" was conducted under the NADP scheme entitled "Establishment of fisheries technopark cum fish processing technology business incubation centre" at the Fish Processing Plant of the CoFE on 21.11.2017. Forty women SHG members of fishers' community who attended the program were given hands on training on good hygienic handling of fishes and filleting of fishes. Practical demonstration of many value added products were also given. Dr. K. Rathnakumar, Professor and Head of the Dept. of Fish

Process Engg., insisted the need for trainees to become entrepreneurs in future by undertaking these technologies. The event was coordinated by Dr. N. Manimehalai, and Dr. P. Karthickumar, Department of Fish Process Engineering.

#### **Training program on "Loach culture and breeding technology"**

Parakkai KKCentre for Sustainable Aquaculture, Parakkai, Kanyakumari district organized a one-day training program on 'Loach culture and breeding technology' in two batches of 35 participants each on 22.11.2017 and 23.11.2017. Participants from different districts of Tamil Nadu and Puduchery attended the program. The Centre has also established a model unit on loach breeding in circular cement and FRP tanks and a small earthen pond for rearing of loaches. The trainees were taken for field visit and demonstration on loach breeding techniques. A pamphlet on "*Ayirai meen valarppu*" was also released.

#### **Training on "Spirulina cultivation and value addition"**

FCRI, Ponneri conducted this training program during 28.11.17 -29.11.2017. A total of nine trainees from various parts of Tamil Nadu attended the program. Dr.B.Ahilan, Dean i/c of the institute inaugurated the program. During the training, various aspects spirulina cultivation and value addition were taught to the participants and a visit to a commercial spirulina cultivation farm was also arranged. The training program was coordinated by the Department of Fisheries Extension.

#### **Skill development training program on Vannmei farming**

A one-month skill development training program on "Vannamei farming" was inaugurated by Dr.G. Sugumar, Dean at FCRI, Thoothukudi on 28.11.2017. This program will be conducted till 27.12.2017. A total of 14 trainees from various districts of TamilNadu have registered for this program. Mr.K.S.VijayAmirtharaj, Assistant Professor and Head i/c, MRFF, Tharuvaikulam will conduct this program.

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## TAMIL NADU FISHERIES UNIVERSITY



# TNFU NEWS LETTER

**Vol. 04 No. 11**  
**November 2017**

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



We have conducted the Academic Council Meeting and the Board of Management Meeting this month and obtained approval for many important subjects pertaining to academic and infrastructural development of our University.

The second review of the staff of the University (within 7months) was conducted at Thoothukudi, Nagapattinam and Ponneri campuses. The need to focus on research projects and funding support from outside agencies was reiterated again to the faculty.

Had an opportunity to deliver the key note address at the Indian Fisheries and Aquaculture Forum held at Kochi from 21<sup>st</sup> to 24<sup>th</sup>. In this meeting TNFU also won the bid to organize the next Indian Fisheries and Aquaculture Forum in 2020 at Chennai. This is an important occasion for us to showcase our organizational capability.

As TNFU will be organizing WAS-APA'19 in 2019 and IFAF '20 in 2020', we feel it's a great honour for TNFU to organise such mega events in our University in two consecutive years.

TNFU is adding one more constituent unit (TNFU has 35 Numbers now) and we have got the enter-upon for the land allotted at Trichy by the Collector. I am thankful to the Collector for having accomplished this land allotment in 3 months' time. We will also be grateful to our Principal Secretary, Dr. K.Gopal, IAS and the CGM of NABARD, Shri. S.N.A. Jinnah for obtaining Rs. 3.50 Cr for establishing an Ornamental Fish Hatchery at this centre at Trichy.

As we are adding more facilities in university, our responsibilities as the faculty and students also are increasing.....

Let's live up to the expectation of the Government and the Fisheries sector!

**Prof. S. Felix**  
Vice - Chancellor



## EVENTS/MEETINGS

**Foundation stone laying for FCRI at Thalainayeru**

Foundation stone for the third FCRI of the TNFU, coming up at Thalainayeru, Nagapattinam district with a budget



outlay of Rs.68.16 crore, was laid by the Hon'ble Chief Minister of Tamil Nadu, Th.Edappadi K. Palaniswamy on 08.11.2017 through video conferencing. A ceremony was conducted for proposing vote of thanks to the Hon'ble Chief Minister at Thalainayeru. Dr. S. Felix, Vice-Chancellor, Th.S.Sureshkumar,



IAS, District Collector, Nagapattinam, Dr. K. Gopal, MP, Dr. A. Srinivasan, Registrar i/c and Dr. B. Sundaramoorthy, Dean i/c., FCRI, Thalainayeru were also present on this occasion.

**TNFU Exhibition stall in MGR centenary celebrations – “Hon'ble Chief Minister visits our stall”**

An exhibition stall was put up by the FCRI in the MGR centenary celebration exhibition at Thoothukudi on 22.11.2017



to educate the public and school children on various aspects of fisheries. Hon'ble Chief Minister, Hon'ble Deputy Chief Minister and other Hon'ble Ministers of the Govt. of Tamil Nadu visited the stall on the occasion. A colourful display of marine fin and shell fishes, freshwater ornamental and edible fishes, boat models and various fishery products with description were displayed in the stall. Educative posters on health benefits of eating fish were also put up in the stall. More than 2,500 onlookers visited the stall. Dr.K.Veerabhadran, Professor and Head, Department of Fisheries Extension co-ordinated the entire program with the assistance of other faculty.

**Inauguration of Library at the new block of FCRI, Ponneri**

Prof. S. Felix, Vice-Chancellor, TNFU inaugurated the library at the new block of FCRI, Ponneri on 13th November 2017. Mrs. Ezhilrani, Assistant Librarian of the institute exhibited the facilities and books collection of the library to the gathering.

**Half yearly review by the Vice-Chancellor at FCRI, Thoothukudi**

During the half yearly review on 06.11.2017, the Vice-Chancellor addressed all the faculty staff in which he spoke about the expectations of the University from the staff. Then the Vice-Chancellor conducted individual staff review in the presence of Director of Research i/c and the Dean of the institution.

**Dr. Soottawat Benjakul, Prince of Songkla University, Thailand's visit to FCRI, Ponneri**

Dr. Soottawat Benjakul, Professor, Prince of Songkla University, Thailand visited FCRI, Ponneri during 21.11.2017-

22.11.2017. He was received by Dr. D.Manikandavelu, Dean i/c. During this period, Dr. Soottawat visited the Pulicat Research Farm Facility at Pazhaverkadu, Advance Research Farm Facility and Aquatic Rainbow Technology Park at Madhavaram, delivered a guest lecture on “Valorization of fish and shellfish by products” and also held discussions with the faculty and PG students of the institute. Dr. Soottawat resumed the process of signing MoU between TNFU and Prince of Songkla University. His entire schedule at FCRI, Ponneri was co-ordinated by Dr.N.Muralidharan, Asst. professor, Dept. of Fish Processing Technology, FCRI, Ponneri.

**World Fisheries Day Celebrations in TNFU****o FCRI, Thoothukudi**

As part of the celebration of 'World Fisheries Day', a poster making competition on the theme “The Future of Fisheries” was conducted for the students.

A one day awareness program on “Fisheries and Aquaculture” was conducted on 21.11.2017 by the Department of Aquaculture. In the inaugural function, all the staff and students were administered the pledge of World Fisheries Day. Mr.K.S.Vijay Amirtharaj, Asst. Professor and Head i/c, Mariculture Research Farm Facility, Tharuvaikulam welcomed the participants. Dr.N.V.Sujathkumar, Dean i/c delivered the presidential address. Lectures were also delivered on health benefits of seafood consumption. In this program, a total of 50 students from Subbaiah Vidhyalaya Girls' Higher Secondary School participated. The students were also taken to Mariculture Research Farm Facility, Tharuvaikulam for field exposure.

**o FCRI, Ponneri**

A rally for creating awareness about “Fish in Nutrition” was organized at Ponneri on 20.11.2017 as a part of World Fisheries Day celebrations. Totally 150 students participated in the rally and they carried hoardings regarding the importance of fisheries in today's life. They also distributed leaflets and pamphlets stressing the importance of fish as food.

The World Fisheries Day was celebrated at FCRI, Ponneri by inviting school students in and around Ponneri for elocution competition on the theme “Blue revolution for better economy” and drawing competition on the theme “Conservation of fishery resources for future”. Six schools with

a total of 42 students participated in these events. During the prize distribution ceremony, Dr. D.Manikandavelu, Dean i/c., briefed the audience about the importance of fisheries sector and also administered the pledge of the world fisheries day. The chief guest, Dr. Glory Ravikumar, Professor, Tamil



Department, LNG college, Ponneri in her address briefed about the references to fisheries in ancient Tamil literature and books. Ms. S. Agnes Daney Angela, Asst. Professor, Dept. of Fisheries Extension coordinated this program.

**o FCRI, Thalainayeru**

On the eve of the World Fisheries Day on 21.11.2017, the FCRI, Thalainayeru organized a field level training on



“Sustainable vannamei shrimp culture” at Jambavannodai, Muthupettai. Dr. B.Sundaramoorthy, Dean i/c., and T.Anand, Asst. Professor conducted this training. A total of 25 shrimp farmers participated. In addition, an essay writing competition was also organized for I B.F.Sc., students of the institute. The pledge on “Sustainable Fisheries Management” was administered to the students and staff of FCRI, Thalainayeru.

**o CoFE, Nagapattinam**

Dr. S. Balasubramanian, Dean, CoFE inaugurated the World Fisheries Day celebrations in the CoFE campus with the oath “We will work together to improve fisheries management, protect the ocean and safeguard the marine boundary for generations to come” on 21.11.2017. Students from Middle School, Keechankuppam were permitted to visit the Metro plant and see the machinery. Functions of the machinery in the plant were explained by faculty of





the Dept. of Fish Process Engg. The events were co-ordinated by Dr. Mohammed Tanveer, Dr. M.Sivakumar, Dr.N. Manimehalai and Dr. P. Karthickumar.

#### o IPGS, Vaniyanchavadi, Chennai

On the occasion of the World Fisheries Day celebrations at the IPGS on 21.11.2017, an oratory competition was conducted on the topic "Importance of biotechnology in



Fisheries". B.Tech. (Biotechnology) and M.F.Sc. students actively participated in the competition.

#### o DEE, TNFU

World Fisheries Day was celebrated by the Directorate of Extension Education, TNFU, Nagapattinam on 21.11.2017 at Meenatchi Fish Farm, Kottur, Thiruvavur Dist. Dr. M. Nagoor Meeran, Director of Extension Education gave an introduction about TNFU profile, growth of fish culture in the delta districts, farm management practices to be adopted during the



ensuing winter and summer seasons and alternative species available for aquaculture in the inland regions. Th. Muthukumaraswamy and Th. Pugazhenth, aqua farmers, shared their experience on successful culture of vannamei, loaches along with carps and other native species. A pledge to improve fisheries management and protect the fishery resources was also administered in the meeting. About 20 fish farmers attended this program.

#### o TNFUA, Chennai

On world fisheries day, Dr. Venkatraman, the former Director of ZSI, Chennai delivered a guest lecture on "Marine



Biodiversity and its conservation" at the TNFUA. All the in-service trainees attended the program.

#### o ECeSA, Bhavanisagar

The world fisheries day 2017 was celebrated at Erode Centre for Sustainable Aquaculture, Bhavanisagar, on 21st and 22nd November 2017. On 21st to mark the occasion, an exhibition was organized with 16 ornamental and cultivable fish species. Posters on the TNFU activities, importance of fish in nutrition and fish farming were also displayed. A total of 260 students from two schools in Bhavanisagar visited the stall during the two days and witnessed the exhibited specimens and displays. Besides the students, 35 members of fishermen societies in Erode dt. visited the centre during the celebrations. Dr. Karthikeyan, Deputy Director of Fisheries, Bhavanisagar and Th. Kulanjinadhan, Assistant Director of Fisheries, Erode also visited the centre and had a short meeting with the fishermen of various societies of the district on conservation of fishery resources.

#### o TCeSA, Thanjavur

On 21st Nov, 2017, the World Fisheries Day was celebrated by Thanjavur Centre for Sustainable Aquaculture at the High School, Soorakottai. Importance of fishery resources and benefits of fish consumption were explained to the students in detail by Ms.T.Gowsalya, Teaching Assistant of the centre.

#### o PKKCeSA, Parakkai

Parakkai KK Centre for Sustainable Aquaculture, Kanyakumari dt. organized an exhibition and awareness

program on fish in human food on the occasion of the World Fisheries Day at Parakkai on 21.11.17. One hundred students from the Govt. High School, Parakkai participated in the program. K.Ravaneswaran, Professor and Head, PKKCeSA conducted the program. Ornamental fishes, carps and wild native fishes were displayed in the exhibition.

#### o DATTI, Muttukadu

World Fisheries Day was celebrated by the Directorate of Aquaculture Technology, Training and Incubation (DATTI), Muttukadu on 21.11.2017. Multiple disorder students and children, their parents, teachers and HRD course trainees from two divisions viz., Department of Adult Independent Living and Department of Special Education from National Institute of Empowerment for Persons with Multiple Disorders (NIEMPED), GOI, Muttukadu attended the program. Various cultivable fishes were exhibited and the traits were explained. Operation of feed mill extruder and floating feed preparation were also demonstrated to the students. A training manual on fish culture was distributed to the participants.

#### Inauguration of Kayalagam in constituent units of TNFU

On the occasion of the World Fisheries Day, *Kayalagam*, the retail outlet for the sale of various value-added fish products in TNFU was inaugurated at the FCRI at Ponneri and Thoothukudi and CoFE, Nagapattinam. At the FCRI, Ponneri Dr. Sootawat Benjakul, Professor of Songkla University, Thailand inaugurated the stall. At the FCRI, Thoothukudi and CoFE, Nagapattinam, Dr. N.V. Sujathkumar, Dean i/c., and Dr.S. Balasubramanian Dean, respectively inaugurated the stalls. These stalls will create awareness among the people about value-added fish products and will promote their consumption.

### RESEARCH CORNER

#### Continuous scaling-up of the microalgae *Nannochloropsis oculata*

Continuous culture of *Nannochloropsis*, a microalgae, is crucial for the mass production of zooplankter groups like rotifers, artemia and copepods which form the important feed for fish larvae in marine hatcheries. *Nannochloropsis* was cultured using Conway- Walnes Medium in the Marine Finfish Hatchery at the RCeSA, Mandapam from pure to intermediate culture levels. Intermediate culture of the microalgae was undertaken in polythene buckets of 20 L and 50 L capacity. The cell densities in different containers were  $6.75 \times 10^6$  cells/ml and  $8.8 \times 10^6$  cells/ml respectively when counted in Haemocytometer after a period of six days. However, the cell density of *Nannochloropsis* was very less ( $1.95 \times 10^6$  cells/ml.) in mass cultures of 500 L capacity tanks done using commercial fertilizers (Ammonium sulphate: Urea and DAP@ 100:12:12 gm in 1000 L). Sunlight was used as the source of illumination

for both intermediate and mass culture. The study showed the limitations of commercial fertilizers in yielding high cell densities.

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

#### Tubifex Culture

Parakkai KK Centre for Sustainable Aquaculture developed a low cost model unit for the culture of tubifex



worms. This model is designed with locally available materials. The size of plastic tub used for the culture is 2' x 1.5' x 0.6' (LxBxH). Black soil floor (mixture of soil, sand and detritus) was formed in the tub with the running water system. The mother culture was inoculated into the tub and powdered feed and waste were given as a nutrient source to enhance the production and growth of tubifex worms.

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

### STUDENTS CORNER

#### International Men's Day Celebrations at FCRI, Thoothukudi

The Students' Association of FCRI, Thoothukudi organized the celebration of "International Men's Day" on 17.11.2017. Mr.T.Paul Nathaniel of III B.F.Sc welcomed the gathering. Mr.G.Guruprasanna of III B.F.Sc. offered Men's Day special note. Dr.S.Athithan, Vice-President of Students' Association spoke on this occasion. Dr.G.Sugumar, Dean





delivered the presidential address and highlighted the importance of celebrating International Men's Day. On this occasion, a debate on "Do men still excel in managerial skills in the present day society or not?" was conducted among students.

#### Inauguration of students' Association at FCRI, Ponneri

The Students' Association for the academic year 2017-18 was inaugurated on 13.11.2017. Two new clubs, namely Tech club and NSS were also inaugurated on the occasion.



Prof. S. Felix, Vice-Chancellor, TNFU was the chief guest of the event and in his chief guest address he motivated the students to be very active in the club activities of the institute. New Secretaries of the respective clubs took oath signifying their responsibility and commitment. Dr.B.Ahilan, Dean i/c of the Institute and President of Students' Association, in his address, briefed the importance of leadership qualities among students. Dr. Cheryl Antony, Vice-President of the Association welcomed the gathering. Dr.S. Balasundari, Coordinator of IV B.F.Sc students felicitated the new office bearers. The Vice-Chancellor released the PG and Ph.D. Handbook for the academic year 2017-18 and distributed certificates to the IV B.F.Sc. students who had successfully completed the NSS camp.

#### Student of FCRI, Ponneri bags third place in Judo

Mr.T. Harikaran of I B.F.Sc. bagged third position in the 27th Tamil Nadu State Cadet & Junior Judo Championship



2017-18, held at Uthangarai, Krishnagiri district during 2nd to 4th November, 2017.

#### Eye checkup camp at FCRI, Ponneri

An eye checkup camp was organized by the Health Club of the institute on 15.11.2017. Dr. Agarwal's Eye Hospital Ltd, Chennai sponsored the event. Total screening of eye was



carried out to 292 members including staff and students. Auto refraction, colour vision, subjective refraction and personalized counseling were carried out.

#### NSS dental checkup and awareness camp at the IPGS

As a part of the NSS, a free dental checkup and awareness program was organized at the Institute of Post Graduate Studies, Vaniyanchavadi, Chennai on the 15th November 2017.



A team of Senior specialists and medical students from Chettinad Health City, Kelambakkam carried out the comprehensive dental checkup for students and staff of the institute. The camp was initiated with talks on dental awareness, common dental ailments and preventive measures for the dental ailments. On completion of dental checkup, report summary of the diagnosed problem and the recommended dental treatment plan were given to all the individuals.

#### NSS Beach Cleaning drive by B. Tech (Biotechnology) students

As a part of NSS, a beach cleaning drive was organized in Kovalam coastal village on the 22nd November 2017. The



I B.Tech. (Biotechnology) students of IPGS actively participated in the program.

#### TNFUA, Chennai

##### Guest lectures:

- The Tamil Nadu Fisheries University Academy, Chennai has been conducting regular in-service trainings for one batch of the State Fisheries Department staff since 19.01.2017. A total 21 trainees (both Inspector of Fisheries and Sub-Inspector of Fisheries) now undergoing this program. As a part of this program, the following five guest lecturers were organised during November 2017.

Sl.No.	Date	Title	Name of the Speaker
1	08.11.2017	The Tamil Nadu Marine Fishing Regulation Act and Rules	Mr. Julius Edward, Asst. Director of Fisheries, Chennai.
2	08.11.2017	The Tamil Nadu Government Servants (Conditions of service) Act 2016	Mr.K. Krishna Kumar, Joint Secretary to the Govt. (Retd.) P & AR Dept.
3	21.11.2017	Marine bio-diversity and its conservation	Dr. Venkatraman, Former Director, ZSI, Chennai
4	23.11.2017	Stress Management	Mr. V. Vidhyasagar, Program Director (Rtd.), Anna Institute of Management, Chennai
5	29.11.2017	Registration and licensing of fishing craft	Mr.Alagarswamy, NIC, Chennai

##### Field Visits

- The trainees were taken on field visit to the FCRI, Ponneri during 7-8 November 2017 for practical demonstration on preparation of value-added fishery products.
- The trainees were taken on field visit to Kasimedu Fishing Harbour, Chennai on 30.11.2017 to see the operations of fishing crafts and gears and identification of different types of marine fin and shell fishes.

#### OUTREACH PROGRAMS

##### Skill training program on basic techniques in ornamental fish culture and breeding

The Directorate of Extension Education, TNFU conducted the 3rd batch of skill training program on "Basic techniques in ornamental fish culture and breeding" at Madurai during the



period from 01.11.2017 to 28.11.2017. This program included five days class room teaching and 20 days of farm attachment. Dr. M. Nagoor Meeran, Principal Investigator of this program, inaugurated the program on 01.11.2017 and emphasized on the importance of skill training program. Valedictory function for this training program was conducted on 29.11.2017. A total of 34 participants under went this training program.

##### Cashless transaction campaign

A "Campaign on cashless transaction" program was organized at the CoFE incollaboration with Indian Bank on 17.11.2017. In this program, focus was given to importance of cashless transaction, safety and security in transacting money using debit and credit cards, net banking / mobile banking and usage of BHIM Application. Eighty participants registered in BHIM App and learnt the usage of it. The program was coordinated by Er. C. Mercy Amrita, Assistant Professor, Department of Basic Engineering.

##### Vocational training on fish feed preparation

Department of Fish Nutrition and Feed Technology, FCRI, Thoothukudi conducted this one-day vocational training program on 17.11.2017. A total of nine trainees attended this program. Dr.G.Sugumar, Dean distributed the certificates to the participants and in his speech, he motivated the coastal community to take up this venture as an alternative livelihood opportunity. Dr.S.Athithan, Professor and Head of the Department coordinated this program.

##### Awareness cum training program on "Production of value added fish products and marketing strategies"

This one-day awareness cum training program was organized at Fish Processing (Metro) Plant of the CoFE, Nagapattinam on 17th November, 2017. The event was inaugurated by Dr. S. Balasubramanian, Dean, CoFE. Mr. D. Ganesh, AGM, NABARD, Nagapattinam attended as the chief guest and spoke on the importance of NABARD schemes towards livelihood improvement. The facilities viz.,