

Entrepreneurship development through data science for ML and AI applications

A new division Advanced Computation and Data Sciences Division (ACDSD) has been formed in this institute which was inaugurated by Dr Shekhar C Mande, Director General, CSIR & Secretary, DSIR, Govt. of India on 17th March 2019. This division aims to strengthen the advanced computational and data analytics of the different R&D sectors in CSIR-NEIST, Jorhat by adopting contemporary scientific and technological advances. This helps to explore into different social problems and to come up with the proper data driven solution by adopting different machine learning (ML) algorithms and artificial intelligence (AI). This division also aims to trigger in innovation and entrepreneurship.

Cultivation of Mushroom for livelihood generation

CSIR-NEIST has developed the agro-practice for cultivation of edible mushroom varieties and also the process for commercial mushroom spawn production. The institute has transferred this agro-practice to 30,000 beneficiaries as well as the spawn production technology to more than 20 entrepreneurs/NGOs and generated employment to over 5000 people. An interesting note on the success stories of CSIR-NEIST in transferring developed technologies to several parties and uplifting the socio-economy in NER is highlighted here.



“Enajori SH-Group” Naharlagun: NEIST Branch, Itanagar has provided training on mushroom cultivation to all of the members of the “Enajori SH-Group” Naharlagun. As per their feedback report 40 kg fresh mushroom harvested during Nov-Dec. 2017 benefitted the people in earning Rs. 8,000/- by selling in Naharlagun local market.

“ASHWASH”- the ray of hope, Lakhimpur, Assam: “ASHWASH”- the ray of hope is another progressive society taken Commercial cultivation of mushroom under our technical guidance at Azad, North Lakhimpur, Assam since 2016 and as per report the society has earned an Amount of Rs. 45,000/- by harvesting and selling of 300 kg fresh mushroom in North Lakhimpur local market during 2017-18 period.



Other mushroom beneficiary includes Mr. Nabam Tajik Nirjuli, Smt. Deni Rinya, Mr. Tadar Taddy Doimukh, Rajat Pawe, Bongalmara, Smt. Miju Deori, Shri Biki Tady, Chimpu, who participated in the training programme organised by NEIST Branch Itanagar and successfully utilized their training for their earnings.

TP16- biofertilizer

CSIR-NEIST developed the TP16- a biofertilizer based on the microbial source of the region that has plant growth promoting activity. TP16 is available in both liquid and carrier based solid formulations for field application. On application, it fortify the soil quality and cut down the requirement of synthetic fertilizer (nitrogen by approximately 50%) and synthetic agrochemicals (~20% minimum) keeping intact the plant growth and harvest index of rice and fresh leaf yield in tea. The technology of TP-16 biofertilizer was transferred to Amrit Organics located at Tingrai Chariali, Panbari, Duliajan and the institute earned a total of 2.5 Lakhs as license fee as against the investment of Rs. 28.9 Lakhs.



Technical session VIII (chaired by Dr. I. Suryanarayana)



Dr. H. Purushottam, CMD, NRDC explained the role of NRDC in promoting innovation and entrepreneurship by promoting, commercializing, technology transfer, IPR protection & bridge between R&D and industry

Lighting of lamp and opening remarks by Dr. G N Sastry



Dr. Ch. V. Rao, Sr. Principal Scientist, CSIR-NBRI, was the second speaker of this session and he gave a talk on “Technologies of CSIR-NBRI”.

Dr. B N Hazarika, Dean, Central Agriculture University, Pasighat, Arunachal Pradesh showed glimpses of the university and emphasized on various varieties of citrus and other horticulture and floriculture products cultivation taken care by the institute in Arunachal Pradesh



Technical Session IX was chaired by Dr. Deepak Dutta, CSIR-NEIST

Speaker: Dr. R. K. Srivastava (CSIR-CIMAP, Lucknow) talked about the effort of CSIR-CIMAP for the entrepreneurship development through the cultivation, propagation and value addition of aromatic plants and extracted essential oils .

Er. Satish Dabe (CSIR-NEERI Delhi) talked about scopes through which innovators can connect to CSIR-NEERI for successful translation of NEERI-developed technologies.

Dr. S. S Sadistap (CSIR-CEERI Pilani) discussed on the tremendous effort of CSIR-CEERI for providing the solutions to the problems in water and aquaculture in last several decades.



Mr. Das is a Paan shopkeeper by profession cum innovator. In the speech he talked on some of his key innovations including pan making machine, bricks-carrier, agarbatti stick making machine, pesticide spraying device etc. **Mr. Walling** talked on “Brief presentation on ABFAP (Amity Banana Fiber & Allied Products), Dimapur, Nagaland”. In his speech Walling stated the process of extracting banana fibre and making value added products there from.



Technical Session X was chaired by Er. S. C. Kalita, CSIR-NEIST

Dr. Abhijit Sharma, Director, IIE, mentioned about the IIE activities focusing on skill development, cluster development and services like linking to different institute, person, financing agencies.

Mr. Zaman Zveer, Manager, NEDFI, talk focused on venture capital funding Market-fit pts., Realistic exit potential , innovation building strong management skills.



Technical Session XI was chaired by Dr. Viswajanani Sattagari, TKDL



Proprietors:
Bhogali Jalpan,
Everyday Masala,
Meghali Food & Kamen Industries



Dr. Tapas K Kundu, Director, CDRI gave a talk on “Epigenites: Life beyond your genes: implication in health & diseases.

Prof. V Prakash gave a talk on “Challenges in food value chain in agri food processing in north east– solutions through sustainable micro entrepreneurship from farm to folk



Glimpse of Valedictory Program



Rural women development program (RWDP) enthusiasm in CSIR-NEIST

BULLETIN EDITORIAL TEAM

