

NDRF NEWSLETTER

Vol 4 ISSUE APRIL 2020



NDRF Golden Jubilee Year

IE(I) Centenary Celebrations

NDRF National Space Challenge 2020

World Engineering Day Celebration

Launch of CanSats

Pearl Ratna Award 2019

One Day Certificate Course

DIRECTOR
NATIONAL DESIGN AND RESEARCH FORUM
The Institution of Engineers (India)

No.3, Dr. B.R. Ambedkar Veedhi, BANGALORE-560001

Phone : 080 - 2226 4336



NDRF EVENTS

NDRF-National Space Challenge (NNSC-2020)

NDRF Golden Jubilee Celebrations and IE (I) Centenary Celebrations Student Satellite Launched event was organized by NDRF for school students of 8th to 12th standard. NDRF selected 12 teams and provided necessary technical guidance to build the payloads. Students got a chance to build their innovative payloads. 3D printed cubes were distributed to the student teams and packaged payloads were received from them. No fee was charged from the student teams.



Shri. KP Anbalagan, Hon'ble Minister for Higher Education, Govt of Tamilnadu , Dr.M.Annadurai, Chairman, NDRF and other guests.

226 student teams from 8 states had participated in the contest. NDRF had selected 12 teams from Tamilnadu, Karnataka, Maharashtra, Bihar, Jharkhand, Andhra Pradesh and Goa.

Launch event was held at VIT University, Vellore on 19th January 2020. Dr K Sathyanarayana, Registrar, VIT presented the welcome address. Shri. KP Anbalagan, Hon'ble Minister for Higher Education, Govt of Tamilnadu was the Chief Guest of the satellite launch event and addressed the gathering. Dr.G. Vishwanathan, Chancellor, VIT had presided over the event. Dr. Mylswamy Annadurai, Chairman-NDRF and Vice President, Tamilnadu State Council for Science and Technology briefed about the contest and salient features. Winners of NNSC-2020 were felicitated by the Chief Guest with medals and certificates.

Twelve payloads were launched to near space using a helium balloon. The balloon reached an altitude of about 20 kilometers. A control centre was set up at VIT to track the satellite in real time. Space Kidz India mentored the students in to build their payloads for the launch.

In his address, Hon'ble Minister for Higher Education, Govt of Tamilnadu, Shri KP Anbalagan, urged the scientists and researchers to expand their research in key sectors like agriculture, fisheries and animal husbandry. He also said that researchers should engage in research that arise out of social needs, frame methods to maintain hygiene and conserve environment to enhance the standard of living of the people. The Minister added that developments in science and technology are inter-related with the growth of higher education.

Briefing about the contest, Chairman-NDRF and Vice President of Tamilnadu State Council for Science and Technology, Dr M. Annadurai said, "We have to imbibe higher level of interest about space technology among school students as India has been emerging as a power hub for space technology". VIT Chancellor, Shri G Viswanathan, Vice President, Sankar Viswanathan, and Smt. Kesan, Founder of Space Kidz India were present during the occasion.

Launch of CanSats



National Design and Research Forum (NDRF) and Jeppiar Institute of Technology (JIT), Chennai, jointly organized the "Launch of CanSats" on 8 February 2020 at Chennai as a part of Golden Jubilee

Celebrations of National Design and Research Forum (NDRF) and Centenary Celebrations of The Institution of Engineers (India). 12 Students Team received Young Research Engineer Award from Dr. Mylswamy Annadurai, Chairman, NDRF, Vice President, Tamilnadu State Council for Science and Technology.

NDRF MEETINGS

NDRF, Board of Governors - 14 December 2019



Meeting of the Board of Governors of NDRF held at NDRF, Bangalore on 14 December 2020 and BoG has been apprised of the following activities: NDRF Golden Jubilee Celebrations 2020, IEI Centenary Celebration, NDRF Space Challenges 2020, Collaborative Academic Research Activities, Collaborative Industry Research Activities, Student Internship Programmes, Training Programmes / Seminars / Workshops, Joint Program with IEI, Socio Technological Projects, MSME Business Incubator, NDRF New Website, NDRF Publications, Release of NDRF Newsletters, Student and National Design Awards

Meeting with NDRF, IIITDM and Enti Innovations Pvt Ltd

NDRF organised a meeting with Indian Institute of Information Technology Design and Manufacturing (IIITDM), Kancheepuram and Enti Innovations Pvt Ltd on 13 January 2020 at NDRF to discuss on the training modules and other facilities required for the training at IIITDM. The following members were participated: Dr. M. Annadurai, Chairman, NDRF; Prof. M Raguraman, Professor, IIITDM; Shri V. Swaminathan, CEO-Director, Enti Innovations Pvt. Ltd.; Dr. Enti Ranga Reddy, Council Member, IEI; Dr.N.Shama Rao, Enti Innovations Pvt. Ltd.

Institute Industry Interaction with Composite Professionals



National Design and Research Forum (NDRF) and Indian Institute of Information Technology Design & Manufacturing (IIITDM), Kancheepuram jointly organized the Institute Industry Interaction with Composite Professionals on 27 February 2020. Chief Guest Dr. Mylswamy Annadurai, Chairman, NDRF and Guest of Honour, Prof. Banshidhar Majhi, Director, IIITDM Kancheepuram were participated. Aim of the meeting was to plan for the way forward in education and training in Composite manufacturing.

One Day Certificate Course on Quality Concepts



NDRF organized a "ONE DAY CERTIFICATE COURSE ON QUALITY CONCEPTS" on 28 February 2020 at NDRF. Around 27 students from various colleges had taken part and a few professionals from reputed industries graced the event. Dr. V. Dillibabu, Director, NDRF gave an overview of quality concepts

and their relevance to modern day requirements. The 1st session was conducted by Smt. Archana Magadi, Asst. Professor, RV college of Engineering, Bangalore on "Japanese Quality Models and Quality Excellence Models".

The pre-lunch session was conducted by Shri T.V Kishore, Manager (Quality), Hindustan Aeronautical Limited (HAL), Bangalore on "AS 9100 ISO 90001 standards". The program ended with a last session lead by Shri Suneel Kumar, Scientist, Gas Turbine Research Established, DRDO on Total Quality Management and International certifications for quality professionals.

This interaction provided the participants with information useful for their future growth. There was exchange of ideas between delegates and participants. At the end of session Vote of Thanks was given by Shri B.S Sankar Reddy, Manager, NDRF. Certificates were issued to the participants by Shri. Suneel Kumar, Scientist, GTRE. Shri R. Vijay Krishna, Project Manager, NDRF coordinated the event.

Collaborative Research with Honeywell Technologies



Honeywell Technologies team visited NDRF on 14 December 2019 to discuss on collaboration with NDRF in the field of drones.

Collaborative Research Meeting with VIT-Deemed University

NDRF and VIT University jointly developing the Hydrogen power based 2-wheeler project at VIT, Vellore. Dr. Mylswamy Annadurai, Chairman-NDRF and VIT team had interacted on 19 January 2020 at Vellore for further research.

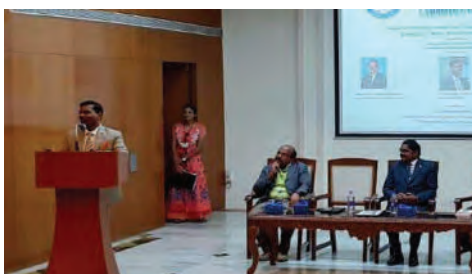
World Engineering Day Celebration



NDRF organized World Engineering Day celebrations jointly with Alliance University on 4 March 2020 at Alliance University, Bangalore. Dr. Anubha Singh, Vice Chancellor presided over the event. Chief Guest Prof. R. M. Vasagam, Council Member-IEI and Past Chairman, NDRF delivered a

technical talk on "Engineering for Sustainable Development". In his talk Prof. R.M. Vasagam gave a brief background of ISRO'S focus and its growth to develop and harness indigenous space technology for solving Indian specific problems as India has a large population and diverse kind of problems. Wayback in 1965, at the beginning, ISRO encountered many problems in developing space technologies for the Country need's which were solved by Indigenous methods. Vote of Thanks was given by Dr. Reeba Korah, Professor and Interim Dean, Alliance College of Engineering and Design. Dr. V. Shankar, Technical Advisor and Shri B. S. Sankar Reddy, Manager, NDRF were attended.

NDRF-UNISEC India had jointly organised UAV based CAN Satellite Launch



NDRF-UNISEC India had jointly organized UAV based CAN Satellite launch at Thyagarajar College of Engineering, Madurai on 7th March 2020 with the participation of invited School Children from various Schools at Madurai.

Dignitaries addressed the students followed by CanSat Launch. Dr. M. Palaninatha Raja, Dean (Planning and Development), TCE had presented the welcome address. Dr. Mylsamy Annadurai, Chairman, NDRF, Dr.V Dillibabu, Director, NDRF, Dr. K. Gopalakrishnan, Secretary General, UNISEC India and Convener, 75 Students' Satellites Consortium attended the event. The event was presided by Dr. V. Abhaikumar, Principal, TCE. Dr. K. Hariharan, Associate Professor, Convener, TCE Students Satellite Project presented the vote of thanks.

Collaborative Research with IIITDM, Kancheepuram – MoU signed



National Design and Research Forum (NDRF) and Indian Institute of Information Technology Design & Manufacturing Kancheepuram (IIITDM) entered into a Memorandum of Understanding on Innovate Solutions. Dr. M. Mylsamy Annadurai, Chairman, NDRF and Professor Banshidhar

Majhi, Director, IIITDM signed the MoU at IIITDM, Kancheepuram on 22 January 2020. This MoU is related to the development of collaborative research in design and manufacturing, to support market industrial needs.

Student Project Competition-Kalam Awards



NDRF, Kalasalingam Deemed University and CVRDE, DRDO jointly held a Technical Project Competition for School & college students. 50 teams were selected for Kalam Awards. NDRF team Dr. Mylsamy Annadurai, Chairman, NDRF, Dr.V.Balamuragan, Director, CVRDE and Dr.V.Dillibabu, Director, NDRF, Dr. V. Vasudevan, Registrar attended the award ceremony on 07 March 2020 at Kalasalingam University.

Pearl Ratna Award 2019



Dr. Mylswamy Annadurai Chairman, NDRE, has been honoured with the PERAL FOUNDATION life time Achievement Award 2019 in recognition of his outstanding contribution and achievement in the field of Space Science during national Conference on "SMART SUMMIT - 2020" at Radha Regent, Bangalore on 15 March 2020. This award is hereby conferred on the Recommendation made by the Adjudication Committee.

Book Launch



A popular science book jointly authored by Chairman NDRF, Dr. M. Annadurai and Director, NDRF, Dr. V. Dillibabu was launched at Chennai Book Fair on 10th January 2020. Padmabhushan Dr. A. Sivathanu Pillai, Founder of BrahMos Aerospace released the book. The book has articles related to Chandrayaan-2, Mission Shakti, Nirbhay among others. The importance of mother tongue and human values was also presented in the science communication book for the masses.

NDRF - Upcoming Events / Online Courses

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**51st All India Student
Design Competition 2020**

One Day Workshop On Additive Manufacturing

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Weekend Internship Program

**DRAINAGE
CLEANING
ROBOT**

National Idea Competition

26 October 2020

OPEN TO: ENG, STUDENTS AND PROFESSIONAL FROM INDUSTRY, R&D AND ACADEMIA.
Selected ideas will be supported technically and financially for prototyping.
Support for scaling up will be extended.

National Idea Competition

BOOKS - Catalogue

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Account Details

Name: The Institution of Engineers(India): A/c NDRE

Account Number: 64142075966.

IFSC : SBIN0040022

Email the transcation details :

ndrf85@gmail.com

www.ndrf.res.in

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