

NDRF NEWSLETTER

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Online Internship Program -2021

Online Webinars

Meetings

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NDRF Online Internship Program - 2021



National Design and Research Forum had conducted 14 days online internship program in July 2021 in association with IEI, Kanpur Local Center. The online internship event was scheduled from 10th July 2021 to 23rd July 2021.

The event had 28 different speakers from **ISRO, DRDO, CSIR, HAL, Wipro, IIT Kanpur, NIT-T, IIITDM, Aerospace Engineers Pvt. Ltd. Brahmos Aerospace-TVN, Caterpillar** and other organizations to train the participants.

A total of 286 engineering students from India and abroad had attended online internship program. Students from 15 states representing 60+ plus institutions including IIT, NIT, BITS Pilani and other institutions attended the program.

On 10th July 2021, NDRF 14 days online internship were inaugurated by **Padmashri Dr. Mylswamy Annadurai, Ex-Project Director, Chandrayaan-1, Ex-Program Director, Mangalyaan, Chairman – NDRF**, during his inaugural speech he gave an overview on NDRF Internship program and its structure. He further explained the interdisciplinary engineering applications in the field of design, manufacturing and other areas of engineering.

On 23rd July 2021, Valedictory talk was given by **Lt.Gen. (Dr.) V. J. Sundaram, Former Director, DRDL & Advisor (Micro-Nano-Bio) Systems, NDRF** and **Dr. V. Dillibabu Director-NDRF**. At the beginning, **Dr. V. Dillibabu** gave an overview on **‘Skills for 21st Century Engineers’**.

Lt.Gen. (Dr.) V.J.Sundaram gave a presentation on **‘Atma Nirbhar, Cyborgs and the Future’**. All the sessions were conducted online and live streamed on **NDRF’s YouTube channel**. E-Certificates were issued to the participants.

TECHNO SPOTLIGHT - 2 - 24 July 2021



National Design and Research Forum has conducted 'Techno Spotlight - 2' Online event in association with National Skill Development Forum, Shimla.

The theme for the presentation in Techno Spotlight-2 online event was '**Waste to Wealth Technologies**'. A NDRF mentored start-up **Moonland Technologies Pvt. Ltd.**, Chennai had presented on the Development of Machinery for Banana waste Conversion.

Lt Gen Dr. V. J Sundaram, Former Director-DRDL and Advisor (Micro-Nano-Bio) System-NDRF, Prof. R. M. Vasagam, Former Project Director, Apple Satellite, ISRO, Dr. C. J. Jagadeesha, Former ISRO Scientist and Technical Advisor-NDRF, Dr. J. Ramkumar, Professor, IIT Kanpur were the panelists.

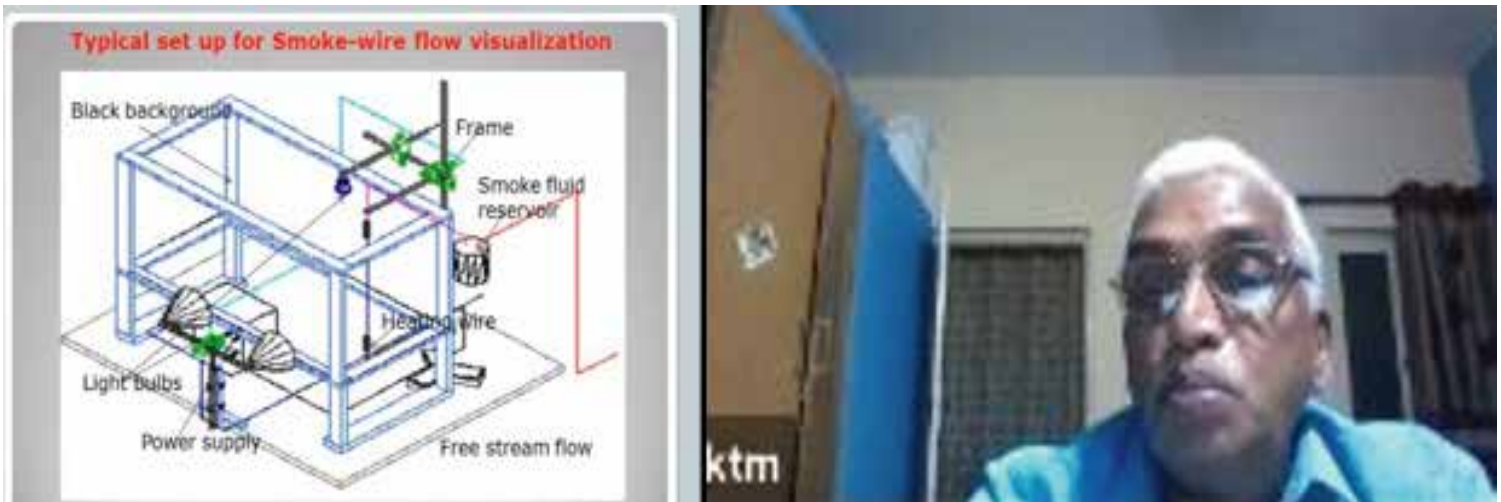
The online event was started with the welcome address given by Mr. Mukund Kumar, Asst. Manager (Technical), NDRF. The Felicitation address was given by **Dr. V. Dillibabu, Scientist DRDO and Director-NDRF**, Presidential address was given by **Padmashree Dr. M. Annadurai, Chairman-NDRF & Vice-President TNSCST**. During his address **Dr. M. Annadurai** explained the importance of industry-oriented student projects. The session was attended by 130 plus participants from different states.

The technical presentation was given by Team Lead, **Dr. Raguraman Munusamy**, Assistant Professor, IIITDM, Kancheepuram and the team members were Sharaq, Praveen, Krishnakumar, Yousuf, Gowtham, and Gajaraj. During the technical presentation Startup team gave a brief overview, idea and methodology, about the Innovation. They explained how the project was framed from planning stage to production stage within a short span of 4 to 5 months. It was also explained about the prototype design of processing machine, difficulty and modification of the machine using CAD software to optimize the process.

A team of Technical Panelist reviewed the presentation. **At the end of session, Chairman NDRF, Dr. M. Annadurai explained about the pilot project.** He further explained how the Moonland Tecnologies Pvt. Ltd. would supply the machines to the farmers. **He also explained the first meeting with Karnataka Chief Minister related to this project.** He further explained on the future planning to replicate this project in Assam, West Bengal, Maharashtra and Tamil Nadu.

In the end of Techno Spotlight - 2 event, vote of thanks was given by Shri B.S. Sankar Reddy, Manager- NDRF.

Invited Talk' Visualizing Flows: Seeing is Believing' - 30 Sep 2021



National Design and Research Forum (NDRF) had organized an 'Invited Talk' on the topic 'Visualizing Flows: Seeing is Believing' in association with IEI Pune Local Centre on 30th September 2021.

The event was conducted through online mode. **The speaker of the event was Dr K. T. Madhavan, Technical Advisor of NDRF.**

Dr. K. K. Ghosh, Chairman, IEI Pune Local Centre, welcomed the participants, invited guests and other members of the online event. Brief Introduction about NDRF was given by Mr. Mukund Kumar, Asst. Manager (Technical), NDRF. The Invited talk was attended by engineering students, IEI Members, Technical Advisors of NDRF.

During the Technical Session **Dr. K. T. Madhavan** had given a brief introduction on the topic and its importance in assessment of aerodynamics. He further explained the different methods of flow visualization such as Gas Flow, Shadowgraphs, Schlieren Technique and also explained the air flow over different conditions. Ms Rinisha Nikhade, student coordinator had presented vote of

Let's Celebrate Kalam - Episode 1 - 27 July 2021



On 27th July 2021, National Design and Research Forum (NDRF) in association with Hindu Group of Publications and SSVN group of institution had conducted an online event titled 'Let's Celebrate Kalam' on Dr. APJ Abdul Kalam, 11th President of India, to pay tributes on his death anniversary. The special guest for this event was **Dr. A. S. Pillai, Founder of Brahmos Aerospace. Dr. Pillai had shared the nostalgic memories with Dr. Kalam.**

Dr. V. Dillibabu, Director NDRF was the host of the event. The event was live streamed on The Hindu YouTube Channel.

Let's Celebrate Kalam – Episode 2 - 28 August 2021



On 28th August 2021, NDRF in association with Hindu Group of Publications and Stella Mary's College of Engineering had conducted an online event '**Let's Celebrate Kalam' Episode-2 on Dr. APJ Abdul Kalam**, to pay tributes to him. The special guest for this event was **Lt. Gen. (Dr.) V. J. Sundaram, Former Director, DRDL and Advisor (Micro-Nano-Bio) Systems, NDRF.**

Dr. Sundaram had shared the nostalgic memories with Dr. Kalam while working on Prithvi Project. **Dr. V. Dillibabu, Director NDRF** was the host of the event. The event was live streamed on The Hindu YouTube Channel

Technical Advisor Meet - 30 August 2021



On 30th August 2021, National Design and Research Forum had conducted 'Technical Advisor Meet 2021'. **The meeting was chaired by Dr. Myswamy Annadurai, Chairman NDRF.** 12 members including Technical Advisors and Special Invitees were present during the meeting.

Dr. V. Dillibabu, Director NDRF had made a detailed presentation on NDRF activities such as projects carried out, conference/webinars conducted, training programs/internships organized, meetings conducted, NDRF websites/publications and award schemes. Mr. Mukund Kumar, Asst. Manager NDRF, had given brief presentation on Mini Project Scheme 2021. Members provided their suggestions for the future technical activities of NDRF.

IEI Council Meeting - 25 Sep 2021

On 25th September 2021, National Design and Research Forum (NDRF) Director, **Dr. V. Dillibabu had attended the IEI Council meeting at Lucknow, Uttar Pradesh.** The technical activities of NDRF were discussed with the representatives of various Fora, State and Local Centers of IEI. Members provided their suggestions for the future technical activities of NDRF.

National Conference on “Additive Manufacturing in Aerospace and Defence (AMAD2022)”



Director, NDRF and organising committee members at DROMI, DRDO, Bangalore

National Design and Research Forum had conducted online meetings, during July to September 2021 for the National Conference. **Dr. V. Dillibabu, Director NDRF had chaired the meeting.** The meetings were attended by the members of organizing committee to plan and schedule a National Conference in 22nd January 2022.

National Conference

On ADDITIVE MANUFACTURING IN AEROSPACE AND DEFENCE (AMAD 2022)



22 JANUARY 2022





ORGANISED BY

**National Design and Research Forum
(NDRF)**

The Institution of Engineers (India)

Indian Institute of Technology Kanpur

Indian Institute of Technology Jammu

RV College of Engineering, Bengaluru

Webinar Mode



In Association With



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