Newsletter

Volume 10, Issue 9, Sep 2020



Aspire

Achievements in Sports, Projects, Industry, Research and Education

All About Nobel Prize- Part 81

UNDERSTANDING THE SPECIFICITY OF OUR IMMUNE SYSTEM

Have you ever wondered how our immune system correctly identifies virus-infected cells from their non-infected counterparts? The answer to this question was first presented by Peter Doherty and Rolf Zinkernagel in 1973. They were awarded the Nobel Prize in Physiology or Medicine in 1996 for their discovery, which brought about a paradigm shift in our understanding of factors that contribute to T-cell activation.

Peter Charles Doherty, an Australian veterinary surgeon and researcher in the field of medicine, was born on 15th October 1940 in Brisbane, Australia. Due to his father's ill fortunes, owing to a lack of

formal education, Peter was inspired and motivated to learn and understand different concepts. He attended Indooroopilly State High School (which now has a lecture theatre named after him) in Brisbane. He then received his bachelor's degree in veterinary science in 1962 and his master's degree in veterinary science in 1966 from the University of Queensland. At his University, Peter found out that he had a strong penchant for research and immunology. Peter migrated to Edinburgh in 1967, and started conducting virology tests as a collaboration with other veterinary graduates. During his stay in Edinburgh, Peter attended a seminar by Mel Greaves at the Metchnikoff Club that convinced him that he had no real understanding of contemporary immunology. He later took up a position as a



postdoctoral fellowship to work with Cedric Mims at JCSMR, who, at the time, was working on T-cell responses in virus infections. At JCSMR, he studied the pathogenesis of Semliki Forest virus

infection in the mouse and then switched to the lymphocytic choriomeningitis virus (LCMV) model, which proved to be a better tool for immunological analysis. It was here that Peter met Rolf Zinkernagel.

Rolf Martin Zinkernagel, a Professor of Experimental Immunology at the University of Zurich, was born on 6th January 1944 in Riehen, Switzerland. Rolf was a voracious reader and got the opportunity

to explore different parts of Europe as part of an exchange program. When he obtained his Matura in 1962, he was uncertain about what to study. After vacillating between chemistry and medicine, he decided to pursue a career in medicine due to its greater range of choices. Starting in October 1970, he spent two years in the Department of Biochemistry at the University of Lausanne, under the direction of H. Isliker, learning about immunology and immuno-chemistry. In Lausanne, he was asked to apply a bacteria technique that had been made popular by T. Brunner and then by J. C. Cerottini, the 51Cr release assay to monitor the destruction of the immunological effector functions of host cells. This confrontation with an infectious disease



and the potential of immune responses to protect against it, motivated Rolf to look for a second postdoc position in the same field. In 1972, Rolf got a position, with some help from H. Isliker, to work with R. Blanden at the Department of Microbiology at JCSMR in Canberra.

Peter and Rolf got assigned to the same laboratory in JCSMR due to space constraints. Although Rolf and Peter came to JCSMR for different reasons and had expertise in different areas within immunology, their propinquity resulted in them working together. They started to cooperate on immune responses against the LCMV virus; Peter was tapping the cerebral spinal fluid and doing the inflammatory and immunopathological analyses in the brains, while Rolf was doing the cytotoxicity assays since he had become familiar with them in Lausanne. This symbiotic collaboration resulted in the discovery of a concept called 'MHC restriction.'

If you are interested in learning about their discovery and its significance, you can continue reading about it <u>here</u>.

Source: https://www.nobelprize.org/prizes/medicine/1996/press-release/

Campus Update

Smart India Hackathon 2020 (SIH 2020)



World's largest Hackathon Organised by the Ministry of HRD & AICTE Nodal Centre: Sri Sivasubramaniya Nadar College of Engg, Kalavakkam, between 1-3 August 2020. The committee members of the event are shown on the left.

SSN alumni Prithika Rani Clears IAS



Annadurai's great granddaughter clears civil service exam

Prithika Rani M, the granddaughter of former Tamil Nadu chief minister and DMK founder C N Annadurai's foster son C N A Parimalam, cleared the civil services exam 2019 in her first attempt and secured the 171st rank at all India level.

The tennis player, who represented the state at the national level, said she wanted to join the Indian Foreign Service to represent the country at the global level. "I do listen to his speeches and read

books. We also visit his memorial in Marina," she said about her famous great grandfather.

She completed her degree in Electrical engineering from Sri Sivasubramaniya Nadar (SSN) College of Engineering and started preparing for civil services in 2018. She took anthropology as her optional subject.

"I did not expect it. I was overwhelmed. I am really happy that I could clear civil services in my first attempt," she said. She used to prepare for six to eight hours a day. Her mother, M Elavarasi, is the daughter of Parimalam. Her father, M M Muthukumar, used to run a garment business. "We are a normal middle class family. I was interested in tennis from a very young age. My family was very supportive and used to travel with me for tournaments," she said. Her favourite tennis player is Roger Federer. She also likes Leander Paes. Her younger sister Sruthika Rani passed the Class XII exam this year. (Times of India).

SSN Center for Innovation and Best Practices in Education (SCIPE) meeting held on 10 Aug 2020



SCIPE meeting was held on 10th August at 6:30 pm. Focus of the meeting was to review the progress in using tools and technologies for online learning and draw the further strategy. President's closing remarks:

There has been good progress in all items marked for action in the last meeting. Congratulations to all faculty for having progressed very well in our online requirements. Good practices like weekly SCIPE Lectures should be continued.

Special Invitee, Dr.Ganesh Samudra's suggestions:

Do not go for more than three tools-which will increase the overheads for students. All these new approaches should not put students at a disadvantage compared to other students of Anna University [for example, scoring beyond 75% in Open book testing, is very difficult].

Labview has good features for signal processing. Next meeting is planned at 6.30 pm on Sept 7, Monday.

Placement update for the month of August 2020



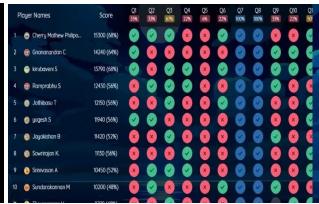
Dr. S.T. Jothi Basu, Manager - Placement

Thanks to the brand premium that Sri Sivasubramaniya Nadar College of Engineering enjoys in the market, we are able to attract a good number of companies even during these trying times. CDC would like to thank the HoDs, Faculty (especially placement coordinators), and student placement coordinators for their unstinting and continued support for the on-going virtual placement season. We received 69 marquee and super dream offers in the month of August 2020. The following are the offers that we received:

S.No.	Batch	Company Name	Category	Job Type	Salary (in lac per annum)	Number of offers
1	2021	Microsoft	Marquee	Full Time	44.00	1
2	2021	Amazon	Marquee	Full Time	30.00	1
3	2021	Goldman Sachs	Marquee	Full Time	23.00	5
4	2021	Avalara	Marquee	Full Time	21.00	1
5	2021	Citibank	Super Dream	Full Time	13.70	35
6	2021	Optum (India)	Super Dream	Full Time	11.00	2
7	2021	Navis	Super Dream	Full Time	10.07	2
8	2021	Lynk Logistics	Super Dream	Full Time	10.00	3
9	2021	Northern Arc Capital	Super Dream	Full Time	10.00	2
10	2021	Sahaj Software	Super Dream	Full Time	10.00	1
11	2021	Buddi.Ai	Dream	Full Time	9.00	3
12	2021	Optum India (stipend: 23 K per month)	Super Dream	Internship	11.00	2
13	2022	Motorq (stipend: 1.20 lac per month)	Marquee	Internship	71.00	2
14	2022	Citibank (stipend: 45 K per month)	Super Dream	Internship	13.70	9

Game show for Staff Cultural Competitions 2020 for Teachers day





Dr. M S Alphin and Dr. Vimal Sam Singh conducted the Game show as a part of Teachers day events 2020. This time the event was conducted via Video conferencing and the games are played in online mode. It was a new experience for every faculty and staff. 21 faculty and staff registered for the event. the prize winners are as below

I Place: Dr. S. Kirubaveni (ECE) and Dr. Cherry Mathew Philipose (English)

II Place: Dr. Ramprabhu S (ECE) and Mr. Gnananandan (HR)
III Place Dr. Jothi Basu (CDC) and Mr. Jaykishan B (Mech)

Web Series by SSN Student Career Opportunities and Proficiency Engagement (SCOPE)



SSN SCOPE is an interactive web series, specially created for the benefit of SSNites, featuring talks by experts from diverse fields.

The second session in the series was live on 8th August, 2020, Saturday at 4 pm.

The topic for the session is "Careers in Indian Defence forces after Engineering". By Lt. Esan, Ex Navy Officer and Trainer.

Lt. Esan has trained more than 300 potential youngsters to

become officers in defence services. He is also a Commander of a voluntary Disaster Rescue Squad whose members include highly trained officers from Tri Services and Coast Guard.

The Third session in the series was on 29th August, 2020, Saturday at 2 pm. The topic for the session is 'IT skills to future proof your career post COVID-19'.

A senior industry expert from Cognizant Technologies will address the students. All the sessions are open for 2nd, 3rd year,4th year B.E/B.Tech and PG students.



Dr. Nanda S

Shiv Nadar University research team develops pathbreaking lithium-sulphur battery technology



Shiv Nadar University, a leading multidisciplinary and research-focused university, and an Institution of Eminence (IoE) as chosen by the government of India, has announced a key breakthrough in lithium-sulphur (Li-S) battery technology.

The research will aid the production of cost-effective, compact, energy-efficient, safe and environment-friendly Li-S batteries, offering a viable alternative to lithium-ion batteries commonly used at present. The new battery technology by Shiv Nadar University leverages principles of green chemistry, incorporating usage of by-products from the petroleum industry (sulphur), agro-waste elements and copolymers such as cardanol (a by-product of cashew nut processing) and eugenol (clove oil) as cathodic materials. It has the potential to assist multi-billion dollar industries including tech gadgets, drones, electric vehicles (EV) and several more that depend on such batteries.

The technology has been developed after an extensive research of five years by Shiv Nadar University's Associate Professor in the Department of Chemistry, Dr Bimlesh Lochab. The research reveals that this Li-S battery technology - once put into production - will be significantly cheaper and sustainable, while offering up to three times higher energy density with intrinsic flame-retardant properties.

Dr Lochab's team has partnered with Indian Institute of Technology-Bombay's (IIT-Bombay) Professor in the Department of Energy Science and Engineering, Dr Sagar Mitra, to use this research for the development of a Li-S battery prototype.

Read More: Click here

Department Update

One-day webinar on "Solar refrigeration systems"

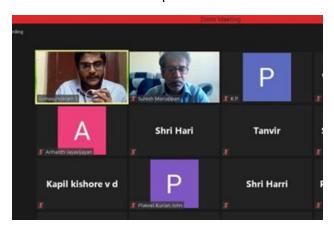


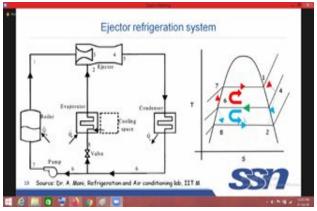
Dr. M. Suresh, Associate Professor and Dr. S. Associate Professor Soma Sundaram. conducted a one-day webinar on "Solar refrigeration systems" was conducted on July 31, 2020 (Friday) through ZOOM video webinar webinar. This was arranged exclusively for the benefit of III and IV year Mechanical Engineering students of our M. Suresh college. Dr. and Dr. Somasundaram were the resource persons.



Suresh delivered a lecture on "Vapour absorption refrigeration systems"

and Somasundaram gave a presentation on "Ejector and Thermoelectric refrigeration systems". 28 students registered for the webinar and 19 of them attended the program. At the end of the program, participants were requested to complete a questionnaire in which 5 questions were asked based on webinar lectures. Participation certificates were issued to those who submitted the questionnaire.





Webinar Conducted on Open Book Exams on 08 August 2020



A webinar was organised by the Mechanical Engineering Department with Dr. S. P. Venkatesan, Retired Professor from I.I.T, Madras as resource person. Considering the COVID situation and its repercussions, the topic of open book exams was very apt for the faculty. 39 faculty members attended the webinar, which was arranged by Dr. Babu. Some methods that the professor used for conducting open book exams, during his career, were discussed and the challenges faced, especially by faculty were brought out. Old sample open book exam question papers in the thermal stream were

shown to give us an idea of what kind of questions can be set for the exams. One left the webinar feeling invigorated with new ideas.

Dr. D. Ananthapadmanaban

Mr. C. Arun Prakash completed his Ph.D. Public Viva Voce Examination



Ph.D. Public Viva Voce Examination for Part Time Research Scholar and Assistant Professor of Mechanical Engineering. Mr. C. Arun Prakash was completed on 18-08-2020 (Tuesday). His Phd thesis is on: Studies on Magnetic Moulding of Al/SiCp Metal Matrix Composites guided by Dr. B Anand Ronald. The viva voce examination was held in the Seminar

Sivasubramaniya Nadar College of Engineering and the examiners were present through the online platform zoom.

Dr. Arun Prakash says: I am grateful to Management, Principal and faculty of Mechanical Engineering for permitting and supporting me to do the research work. I thank each and everyone who supported me in completing my research work.

On behalf of the Department and the Editorial team, we congratulate Dr. Arun Prakash C on his doctorate!

International Publication in Institution of Mechanical Engineers, Part C



Mr. U. Magarajan, PhD scholar's work has been accepted for publication in Proceedings of the Institution of Mechanical Engineers, Part C, Clarivate Analytics, Impact factor: 1.386. Title of the paper is "Effect of Ceramic Particles Reinforcement on the Ballistic Resistance of Friction Stir Processed Thick AA6061 Surface Composite Targets". For this work, ballistic experiments were conducted at GFSL (Gujarat Forensic Sciences Laboratory) Ahmedabad. Guided by Dr. S Suresh Kumar.

International Publication in Materials and Manufacturing process



Mr. Sarangapani, PhD Scholar's paper titled "Experimental Investigations of Electrochemical Micromachining of Nickel Aluminum Bronze Alloy"got accepted publications in Materials and Manufacturing process journal with a clarivate analytic impact factor of 3.69. This paper is co-authored by Dr. Poovazhagan L and Dr K Rajkumar.



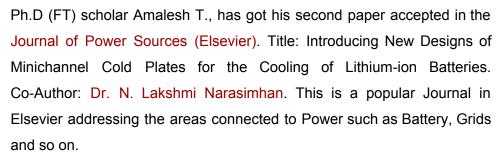
Aspire September 2020

International Publication in Journal of Orthopaedics, Elsevier



Dr. M S Alphin's, research article "Simulation of L4 Lumbar Spine model of motorist exposed to vibration from speed hump" is accepted for publication in Journal of Orthopaedics, Elsevier. Co-Authors: Sri Krishnan G (*BE Mech 2018 batch*), B Jain ART, Clarivate analytic, Cite score: 1.7.

International Publication in Journal of Power Sources, Elsevier





International Publication in Proceedings of Institution of Mechanical Engineers

Dr. K.Rajkumar's paper co-authored with Dr. A.Gnanavel Babu titled 'Influence of ZrB2 / hBN particles on the wear behaviour of AA7075 composites fabricated through stir followed by squeeze cast technique', has been accepted in Proceedings of The Institutions of Mechanical Engineers, Part J: Journal of Engineering Tribology, clarivate analytics. Impact Factor: 1.397.



Project Proposal - Second PAC Meeting

Dr. Satheesh Kumar Gopal presented the project proposal titled "Sustainable skill development Centre- A Knowledge Route" at the second PAC meeting held on 29th August, 2020 (Saturday) by 11.00 am through video conferencing facility provided by Karnataka State Council (KSCST). The first PAC meeting was held at HIPA, Haryana during 18-20 November 2019. The Co-PIs of the project are Dr. K. S. Jayakumar, Dr. K.L. Harikirshna and Dr. N.



Aspire September 2020

P Rajesh (29.08.2020)

Farewell to former Principal



Dr. N.Nallusamy, Head/Mech. presenting a memento to former Principal Dr. S. Salivahanan on behalf of the department faculty and Staff.

Thank you for being our Principal and mentor. We appreciate all the knowledge and skills you have imparted to us.

Discussion with Dr. Ganesh Samudra regarding curriculum development for the Mechanical Engineering Department

A Discussion with Dr. Ganesh Samudra regarding curriculum development for the Mechanical Engineering Department was conducted through ZOOM on August-28 (Friday) at 6.30 PM. Dr. N. Nallusamy, HOD of the department, arranged the meeting, which was attended by Dr. Ganesh Samudra, Dr. S. Vijayan, Dr. M. Selvaraj, Dr. M. Suresh, Dr. A. K. Lakshminarayanan and Dr. R. Vimal Samsingh. The session started, with Dr. Vijayan giving a presentation on "Benchmarking SSN curriculum with top universities across the world". Many points with respect to theory-cum-practice courses, summer internships, addition/deletion of courses and constraints due to affiliation with Anna University were discussed during this presentation. Dr. Ganesh Samudra's suggestions and inputs were noted down and will be considered while developing a new curriculum. Subsequent to this

discussion, clarifications were sought for CO-PO mapping in some of the courses. Dr. Ganesh Samudra suggested introducing complex problems through assignments for design and thermal engineering courses and discussion forums for ethics courses. Finally, Dr. Lakshminarayanan delivered a presentation about implementation of Engineering Fundamentals and Practices (EFP) in Mechanical Engineering courses. He shared EFP approach followed in Theory cum Practice (TCP) courses of R2018 autonomous regulations. He also discussed the approaches for ensuring self-learning of students, discussion forums, quizzes and game based learning. Further the assessment methods were also discussed. Dr. Samudra gave a suggestion that students shall be asked to give presentations on their own ideas about development of a particular product. While discussing virtual labs, Dr. Nallusamy informed that guidelines for conducting virtual labs have been issued to the faculty and laboratory classes are now being conducted in virtual mode. At the end of the meeting, the agenda for the next meeting was decided on the following:

- 1. Curriculum structure for the proposed new regulations under autonomous scheme
- 2. Progress on conduct of virtual labs and students feedback
- 3. Update on the progress of EFP courses





Dr. M. Suresh

International Publication: Journal of Natural Fibers

Dr. K. Babu, Associate Professor has published "Utilization of Taguchi Technique to enhance the interlaminar stregnth of wood dust filled woven jute fiber reinforced polyester composites in cryogenic environment" along with Velmurugan (Ph.D. Scholar) in Journal of Natural Fibers, https://doi.org/10.1080/15440478.2020.1789021. (01-09-2020)

Dr. K. Babu, Associate Professor has published "Statistical analysis of mechanical properties of wood dust filled jute fiber based hybrid composites under cryogenic atmosphere using Grey-Taguchi method" along with Velmurugan (Ph.D. Scholar) in Materials Research Express, 7 (2020) 065310. (01-09-2020)

Faculty Write up

Individual Faculty Contributions to NBA



As a part of continuing efforts to provide academic guidance, our Head of the Department called for individual faculty efforts that could bring in 3 or 5 marks for NBA under "Individual Faculty Contributions" category by attending Faculty Development Programs.

Every faculty could gain 5 marks for attending FDPs (3 marks for 3 to 5 days FDP and 5 marks for FDP more than 5 days) for each academic year. And it is an individual contribution.

He also mentioned that adding every one mark in the total score (out of 1000 marks) is important for a better accreditation status.

Webinar on Intelligent, Reliable, and Interactive (Tele-) Rehabilitation Robotics Tuesday, August 11 attended by Dr. Satheesh Kumar Gopal

YOUser webinar on the "Intelligent, Reliable, and Interactive (Tele-) Rehabilitation Robotics" organized by the Quanser Team was lead by Mr. Arian Panah who introduced the Guest speaker. Dr. Farokh Atashzar leads the *Medical Robotics and Interactive Intelligent Technologies (MERIIT) Laboratory*, at NYU. The mission of the MERIIT Lab is to develop and implement artificial intelligence, advanced control systems, signal processing algorithms, smart wearable mechatronic modules, and transparent human-robot interaction systems to augment human capabilities using multimodal robotic technologies. A particular focus of the webinar was on interactive Neuro-Rehabilitation Robotic and Surgical Robotic systems. The lab hosts state-of-the-art human-machine interface technologies to exploit



bidirectional interactions that allow humans to overcome natural, physiological, and pathological barriers developed with the support of Quanser.



Dr. M S Alphin as a resource person for NIT Agartala

Dr M S Alphin presented an online video conferencing keynote lecture on "Vibration Engineering for a sustainable future" in a two day webinar conducted by National Institute of Technology, Agartala, 03 August 2020.

AICTE sponsored online FDP Resource Person





Dr. L. Poovazhagan delivered a webinar at AICTE sponsored online FDP program organized by the IFET college of engineering, Villupuram. The topic of the lecture is "Additive and lean manufacturing concepts in Industry 4.0"

Dr. L. Poovazhagan Completed four online COURSERA courses

- (i) Finance for Everyone: Value Analysis
- (ii) Advanced Manufacturing Process
- (ill) Nanotechnology: A Maker's Course (iV) Material Processing





Webinar Attended

Dr. K. Jayakumar, Associate Professor has attended one day Webinar on "Advanced Material Characterization in SEM with EBSD Analysis" Organized by Bruker and Leica Microsystems, Singapore on 18th August 2020.





Dr. B. Anand Ronald, attended a webinar on "Augmented Reality and its Applications" by Chetankumar G. Shetty, Senior Lead Innovation, PL Lab in Bajaj Finance, on 5th Aug. 2020. The webinar was organized by McGraw Hill education. The speaker has a book about to be published on the above topic.



Aspire September 2020

ANUBHAV- Online Industrial Training

A JOINT TECHNICAL TRAINING WITH L&T CTEA

Dr. N. Lakshmi Narasimhan writes

The Department of Mechanical Engineering as part of its Industrial Interaction activities under IIPC (Industry-Institute Partnership Cell) and the IEI (The Institution of Engineers India) Chapter, Organized a Joint Core Technical Training Programme "ANUBHAV" between 22.07.2020 and 1.8.2020 with L&T CTEA (Corporate-Technology and Engineering Academy), Mysuru. "Anubhav" is a Flagship programme of L&T CTEA intended for imparting technical knowledge to budding Engineering students with an industrial perspective. The entire programme was conducted Online with about 37 student participants across our Third and Final Years. The duration of training was 6 days with 4 hours per day comprising two sessions every day. All the expert speakers were from L&T



with rich industrial experience and technical background. All the sessions were highly interactive covering a wide range of core areas needed for the present & future. Overall, that was a great experience and the Training was highly commended by all the participants. On behalf of the students, I wish to convey as a faculty coordinator for the programme, my special thanks to Dr. V.E. Annamalai (Principal, SSNCE) and Dr. N. Nallusamy (HoD/Mech) for the consent and kind support for organizing this programme. A special mention with due Thanks to HoD/CSE for sharing the info & proposal of L&T for organizing this programme at our campus. At the outset, our Hearty Thanks with full Appreciations from the Institution to all the Expert Speakers from L&T and Ms. Shoba Arun - heading the CTEA division. Special Thanks to Mr. Nagaraja Kumar, Mr. Vinay Vasanth and all the team members of CTEA for their excellent coordination and support. We at SSN always look forward to a continuous and long lasting interaction with L&T in the years to come.

As a faculty coordinator of the programme, I am really happy that the training was well received and it covered a full 360 degree perspective of the key domain areas of current interest. Kudos to all the participants, the four student Placement Coordinators of Batch 2021 (current Final Year, Mech) K. Naveen Krishna, R. Mahalakshmi, S. Survesh and S. Kaushik Kiran for their immense and timely support towards the grand conduct of this programme.



Dr.R.Prakash, Associate Professor, Conducted the confirmation DC meeting for the part time research scholar Mr.J.Jaiganesh (Reg No: 17122997329) through online mode. 03.08.2020

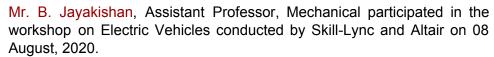
Dr.R.Prakash, Associate Professor, Successfully completed Excel Skills for Business: Essentials an online non-credit course authorized by Macquarie University and offered through Coursera 14.08.2020

Dr. S. Soma Sundaram, Assoc. Professor and Dr. S. Rajkumar, Assoc. Professor, submitted a project proposal for IFFP-202, titled "Hydrothermal Liquefaction of Biomass

Wastes and Experimental Investigations on Emission Characteristics of Dual fuel Compression Ignition Engine", for a total cost of 6.35 Lakhs. 05.08.2020

Dr. B. Anand Ronald, Assoc.Prof, attended a webinar on "Al and IoT in Manufacturing" organized by Dept of Mechanical Engineering, Sri Balaji Chockalingam Engineering College, Arni 05.08.2020

Dr. C. Arun Prakash, Assistant Prof, Published a book chapter ""Effect of Input Velocity on the Output of Vertical Axis Wind Turbine (VAWT)" in Lecture Notes in Mechanical Engineering book series "Trends in Manufacturing and Engineering Management", 22-08-2020







Dr. N. Nallusamy, Professor, presented a technical paper titled ""Effect of Heat Transfer Enhancement Techniques on Energy Transfer Rate of

Phase Change Material in a Latent Heat Thermal Energy Storage Unit" in 3rd International Conference on Frontiers in Automobile & Mechanical Engineering - 2020 organized by Sathyabama University, Chennai during 07-09 August 2020. Co-author: Mr. A. Surya, PG Energy Engineering student. (07.08.2020)



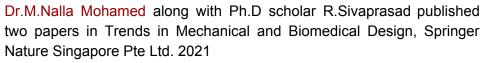
Dr. KS Vijay Sekar, Asso.Professor, won the First prize in the Antakshri Event conducted as part of the SSN Staff cultural competitions. The team

members were Dr.Chitra Babu, HOD - CSE and Mr. A. Balasubramaniam, EEE. (18.08.2020)



Dr. KL. Harikrishna, Associate Professor, attended One-week online AICTE Sponsored Short Term Training Programme (STTP) on "Emerging Research Trends on Robotics and its Applications-Phase II" Conducted

by Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu. (24.08.2020 to 29.08.2020)



Dr.M.Nalla Mohamed participated the webinar on "Parametric design and optimization techniques using ANSYS, organized by St.Joseph Institute of Technology, Chennai



Dr. K. Babu has conducted DC meeting for his part time Ph.D., Scholar Mr. Velmurugan at 2 pm in the Seminar Hall of Mechanical Department and the DC members Dr. P. Ramkumar of IITM and Dr. A.K. Lakshminarayanan attended with proper Covid-19 measures including social distancing.

Decoding the Virtual Campus Placements

Dr. S.T. Jothi Basu, Manager – Placement, Career Development Centre



Introduction

The corona virus outbreak has paralyzed the country's economy. Every segment of the economy is under threat in this pandemic period. Among all the segments, one of the most adversely affected segments is the education industry. In the education sector, the covid–19 situation has brought about whole new challenges to campus placements as well. In this article, I am trying to put together the points that depict the virtual campus placements which evolved during these testing times.

Understanding Placement Process

There are two crucial steps in any hiring process: Recruitment and Selection. Recruitment is the process of finding the apt candidates and inducing them to apply for the job in an organization. Selection is the process of picking the right candidate who is most suitable for the particular job role in the organization.

The same is applicable for campus hiring processes also. Campus Recruitment involves the following steps: The campus hiring team shortlists the educational institutions, initiates a relationship with them and promotes their brand on the campuses. The team visits the institute and engages with students through a detailed pre placement presentation, and then the students are induced to apply for the job roles offered. Campus selection process involves the following steps: campus engagement, screening of the students and followed by campus interviews.

Virtual Campus Placement Process

All these years, there were hardly any technology interventions in the campus hiring scenario. However, the on-going coronavirus pandemic has opened a new door for it. Now every other organization is dependent on technology to shift from a traditional campus hiring process to a virtual campus recruitment drive.

What happens in the Virtual Placement Process?

The entire hiring process goes online; the recruitment and selection processes are done virtually. The pre placement talk is conducted using technology tools like Google Meet, Microsoft Teams, Cisco Webex Meeting, Zoom meeting, etc. The students are made to go through initial online screening rounds such as web proctored aptitude, coding and programming assessments. Then the shortlisted

students from the online tests are interviewed through the technology tools mentioned above. Depending upon the job roles and requirements, there will be anywhere between three to seven rounds of technical, management and HR interview rounds conducted online. Then the job offers will be digitally rolled out to the selected candidates.

The benefits of virtual campus placements for the participating organization:

- No more advance booking of time slots and physical venues
- No need for repetitive physical pre-placement talks and road-shows
- No logistical hassles
- No need for manually evaluating the assessments
- Time, Money and Energy are saved

The traditional hiring process was time-intensive and organizations spent substantial sums on the campus hiring process.

Sectors into virtual hiring mode

It is very important to understand the topography of campus hiring. Broadly this hiring is divided into five categories.

- Large Product Companies
 Service Sector Companies
 Mid / Small Product
 Companies
 Funded Startups
 Core companies
- Typically 40% to 70% hiring from colleges used to happen from large service sector companies like Cognizant, TCS, Infosys, etc. The following are the sectors which would be at an advantage in these challenging times for the business model they posses:
 - Ed-tech Health tech Fin-tech SaaS E-Commerce, Logistics & Supply Chain
 - Digital & Internet Economy FMCG & Retail Specialty Chemicals

In each of the above-mentioned sectors, virtual hiring has been growing at a decent speed. Forbes has come up with the top trending jobs in this virtual hiring period. These new jobs may be trending due to reasons such as high paid salaries, number of vacancies, increasing market demand, etc. The top trending jobs are listed below:

- 1. Blockchain Developer 2. Artificial Intelligence (AI) Specialist 3. JavaScript Developer
- 4. Front-end Developer 5. Back-end Developer 6. Full-Stack Developer 7. Robotics Engineer 8. Cybersecurity Specialist 9. Python Developer 10. Digital Marketing Specialist How to crack these job offers? The key is the preparation for the virtual hiring process.

Winning the Virtual Placement Process: Upskilling and Reskilling

Upskilling is the process of learning new skills; it denotes the continuous and indefinite process of learning. Reskilling is the process of learning new skills to adapt to the dynamic needs of the market; it makes one acquire new skills altogether and forget older ones.

Online Courses: On any given day, doing some online industry certification courses will come in handy for virtual interviews. Thanks to the Internet, we have many online courses that can help you bring up to speed with the latest technologies. Companies like Microsoft, Oracle, TCS, Amazon, Infosys, MOOCs and others are offering free and/or discounted online certification courses.

Internships: Try to seek internships where you can learn additional skills for free of cost. Students should add more value to their resumes by adding more number of internships.

Stay Updated: Embrace technologies that help you learn more. Now the companies are looking for an engineer who can think creatively, build solutions and solve problems, and looking for someone who

can be flexible and agile in adopting new technologies.

Conclusion

The students should understand the changing dynamics in the industry with regard to virtual hiring. The virtual hiring will throw brand new challenges in the future course of time. Students should be up for the challenges and prepare well to embrace it. Many large companies including technology giants such as Google, Microsoft, PayPal, Amazon, Goldman Sachs, Citi, Morgan Stanley, McKinsey are continuing to hire students from campuses despite a weak revenue outlook. And the core companies will start their virtual hiring in the second phase of placement season from January. Platforms like HackerRank, HackerEarth, and Code Chef will help you understand remote programming tests in addition to the other online diagnostic platforms like CoCubes, AMCAT, MeritTrac, and so on. There are websites like geeksforgeeks, glassdoor, freshersworld, edugoog, etc., that can throw lights on virtual hiring rounds and interview experiences. Students should use these online platforms extensively and keep refreshing their domain knowledge as well to cope up with virtual hiring. I would like to draw the following thirukkural to conclude this article:

உள்ளுவ தெல்லாம் உயர்வுள்ளல் மற்றது தள்ளினுந் தள்ளாமை நூர்த்து.

"Failure is okay; but, the low aim is a crime". You are more likely to be inspired and motivated if the dream is larger and seemingly impossible to achieve.

Webinars attended by Dr. D. Ananthapadmanaban

Space on future, 12th August, 2020 7.00 to 8.30 P.M.

A webinar was conducted by ISRO on the birth Anniversary of its founder Vikran Sarabhai. It was highly inspiring to see stalwarts like Dr.Satish Dhawan, Dr.Abdul Kalam and Dr.Radhakrishnan,along with their commitment to making India self reliant in space technology. At present,20 countries are using India's space facilities and this is generating very valuable foreign exchange for India.

Shiv Nadar Foundations webinar on 13/08/20 7.00 to 8.00 P.M.

A webinar was conducted by Mr. Shikar Malhotra, Vice Chairman and CEO, HCL, Healthcare. Key points made by the speaker were If you have an idea that you feel is worth a try, try long enough and you will succeed. You learn



more from failure than success, The speaker says that for 8 failures in his life, he has had 2 major successes Lockdown is as good a time as any other time to start a venture Online education is there to stay and it quickens learning, it will happen side by side with on campus learning in future.

Green Earth Energy

Dr.K.V.Krishna Sastry, Vice Chairman, Indian Institute of Production Engineering gave a technical lecture on green earth energy on 26 th August,2020 from 6.30 to 7.30 P.M. The session was attended by a very modest 15 professionals from all over Tamil Nadu. The talk emphasized on the utility of geothermal energy.

Student write-up



Cynthia Joy, III-year, writes...

"These are the courses that I have done on Coursera. I have also attached a small write up about my favourite course

- 1.The Arduino Platform and C Programming
- 2.Introduction to the internet of things
- 3.Machine Learning Foundations: A Case Study Approach



- 4.Intro to Digital Manufacturing with Autodesk Fusion 360 design
- 5. Fundamentals of graphic design
- 6.Python specialisation (consisting of 5 courses) offered by University of Michigan (ongoing course)

Machine learning foundations: A case study approach offered by the University of Washington was the most interesting course as it was based on learning machine learning with real life scenarios. Few examples were predicting the house prices based on previously collected data of a location, building of a song predictor, deep learning (searching for images) and a product predictor. This course included the usage of python as well as Turicreate. The course was very well explained, interesting and useful to apply in various real-life scenarios.

Vishnu, IV-year, writes about his experience as a fundraising intern...

This was my first fundraising internship, and it was exciting to be a part of a non-profit organization for the first time. I was sceptical at first, because I wasn't very good at socializing, or any other aspect of fundraising for that matter. But as time passed, not only did I learn the basics of fundraising and take steps to reach a larger audience, I also managed to gather a considerable sum of money by the end of my internship.





Description of the internship:

I got to know about this internship (fundraising to help daily wage workers affected due to COVID-19 pandemic) through Internshala, and figured why not do something different interesting instead of the mundane tasks I had been doing during the lockdown. I applied to the internship on 10th July 2020 and received the offer letter of my acceptance on 12th July 2020.

It was a work-from-home internship, and I was given a set of 10 tasks that I had to complete within a period of one month. The tasks revolved primarily around spreading awareness about the initiative, and collecting funds from donors through a personalised campaign link that I had to create on a crowd-funding website called Milaap.

At the start of the internship, I was appointed an operational HR, who had been guiding and helping me and several others in the internship throughout the whole period. Diurnal meets were organised

via Google Meet in order to clear any doubts, or to introduce new tasks and to convey other important information. I had to submit weekly reports at the end of each week, and one final internship report at the end of the fourth week.

By the end of the fourth week, I gathered a total amount of Rs. 4516.



Though I didn't get a lot of people to contribute within the 30 days, I was amazed as to the different means through which I can reach people, make them aware of the situation and convince them to donate whatever little amount they could in order to help the needy.

Finally, I would also like to thank our principal, Dr. V.E. Annamalai, and our HoD, Dr. N Nallusamy, for suggesting a means of communication to spread information regarding this initiative among our college students.

M.Pavithran, III-year, writes...

Hello SSNites,



I'm M.Pavithran, currently pursuing my 3rd year in mechanical engineering. During this month, I have involved myself in quite a few activities which helped me develop skills in various fields. I have attended a "one day bootcamp on Electric vehicles", which was organised by Skill lync and Altair, and sponsored by AICTE. The bootcamp was well

organised and split into 8 sessions. Experts from Altair shared the real time challenges existing in the field of electric vehicles. The workshop was extremely informative, as I developed a lot of interest on EV's. I have also attended an international webinar on "Application of Superhydrophobic surfaces", conducted by Meenakshi Sundararajan engineering college. A Professor from University Sains, Malaysia expressed his views on superhydrophobic surfaces. I have participated in a webinar on "ioT - The practical Perspectives", conducted by SRM institute of science and technology. I have also participated in a webinar on "What technologies should you focus on", conducted by Alpha college of Engineering. All these webinars helped me acquire certain knowledge about the current trends in the industrial field.

I have also completed a one-month internship at Hamari Pahchan NGO. During this internship, I developed empathy and humanity, which every human should possess. This internship helped me satisfy my soul by helping the poor and needy, especially in the current COVID situation. Apart from this, I have participated in numerous NSS activities conducted by our college.





Anirudh Selvam, IV-year, writes...

EDX Course Name:- 16.00x: Introduction to Aerospace Engineering: Astronautics and Human Spaceflight, conducted by Massachusetts Institute of Technology



The course deals with all the aspects of aerospace engineering such as Rocket Science, Environmental Control and Life Support, Orbital Mechanics, Microgravity and Space Physiology, Extravehicular Activity (refers to space walks) and System Safety.

The course instructor is Jeffrey A. Hoffman, Professor of the Practice of Aerospace Engineering at the Department of Aeronautics and Astronautics at MIT. He is a former astronaut and has made 5 flights as a space shuttle astronaut, including the mission to repair the Hubble Space Telescope in 1993.

The course was very interesting and informative and was appropriately challenging in each module and the course has helped me bolster the current knowledge I have regarding the Aerospace field.

Online virtual Internship program: - 3rd August 2020-14th August 2020

Conducting Organization:- National Design and Research Forum

The internship program consisted of online talks by prominent scientists in India. On the first day, the program was started with an inaugural address by Dr. Mylswamy Annadurai, Chief of NDRF and with a talk by Shanmuga Subramanian, a techie from Chennai who found out the position of the Vikram Lander on the South Pole of the moon. The talk was very interesting and went on really well. The topics that were covered on the next few days



were on 3D Printing & Bio Printing, Artificial Intelligence & Robotics, IoT and Blockchain, Drone Technologies and Applications, Modern Quality Practices in Aeronautics, Design Thinking, Condition Monitoring and Diagnostics, e-Mobility and Future Trends, Industry 5.0, IPR, Design Optimization through Digital Manufacturing, Lasers in Manufacturing and Emerging Opportunities in Materials and Processing. The duration of each talk was about 75 to 90 minutes, which was only enough to touch the tip of the iceberg but was still very informative.

Ronald J, III-year, writes about his experience at L&T online training...

"When I was looking for ways to effectively utilize my quarantine days, I came to know about this training program from our placement coordinator, and I gave it a shot. The training program lasted for



about a week, and the staff responsible for my classes were interactive and helpful. They taught us using presentations, videos, and conducted quizzes in-between to avoid boredom. The program gave me an insight into the future of the industry, and it also made me realize how sparse my knowledge about it was. I'm really grateful to our placement coordinator, Dr. N Lakshminarasimhan, for giving me this opportunity to attend a training program before my final year."

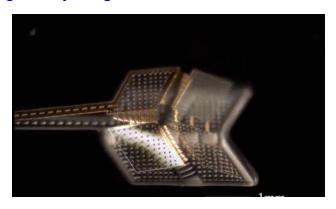
Aditya Bucha, IV-year, writes...

"I have attached the list of courses that I have completed on Coursera sponsored by our College."

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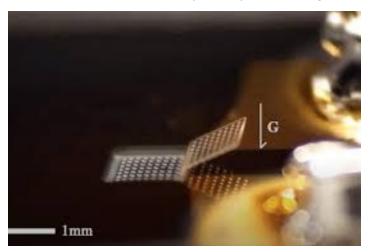
Robotics meets Origami - yet again!

Scientists working in the field of Robotics at the University of Michigan have turned to the Japanese paper-folding art of Origami for inspiration to produce what they say are first-of-a-kind machines, which can fold into different shapes to take on different tasks through the application of heat. The team describes its new creations as microbots, referring to the class of microscopic-scale machines that call for innovative power and actuation solutions due to their tiny size.



The machines are no more than a centimeter (0.4-in) in size and feature a folding layer of gold, along with a folding layer of polymer that acts as the onboard actuator. Tethered to a power source and microcontroller, the machine is fed an electrical current that can be tuned to control the temperature of the material, which in turn dictates the shape that it takes.

"When current passes through the gold layer, it creates heat, and we use heat to control the motions of the microbot," says study author Evgueni Filipov. "We drive the initial fold by heating the



system, then we unfold by letting it cool down. To get something to fold and stay folded, we overheat the system. When we overheat, we can program the fold – change where it comes to rest."

With their small size and increasingly impressive functionality, microbots have the potential to tackle all kinds of jobs, from purifying water by hunting down bacteria to delivering drugs to unclog arteries in the human body.

The University of Michigan team hopes

that this new approach to building and controlling these tiny machines will greatly expand their capabilities. They are currently working to improve the control methods and develop versions with onboard batteries and microcontrollers, as a way of doing away with the tether.

Read this research article published by the team at UMich in the journal Advanced Functional Materials.

Watch this YouTube video of UMich researcher Filipov talking about the microbot.

Corporate Story 69

GreyOrange Robotics

GreyOrange is a global company that modernizes order fulfillment through Artificial Intelligence-driven software and Al-driven mobile robots built together so they cooperate in deciding on and executing warehouse activities that maximize payoffs and minimize tradeoffs to create the highest yield.



GreyOrange experts help organizations master fulfillment in the Age of Immediacy so they keep promises, capture more revenue, save money on fulfillment and improve the work experience for warehouse employees. GreyOrange has core operations in the United States, Singapore, Germany, Japan, and India.



GreyOrange was founded on this fundamental truth: You can't meet modern fulfillment demands with technology built for a previous era, before Amazon changed everyone's expectations for immediacy. In 2011 two young innovators with a passion for Al-driven software and robots decided to combine those technologies to solve problems in an industry badly in need of innovation. They chose fulfillment.

One of their most successful products is their warehouse management system, the AWAREhouse. It

consists of 3 major components - the GreyOrange fulfillment operating system, GreyMatter[™] Al Software, and Ranger[™] robots - which are all produced by GreyOrange. The fulfillment operating system integrates and manages the Al software with the Ranger robots for cooperative system awareness, speed, agility, accuracy, dynamic workforce optimization and best workflows for high yield fulfillment results.

The GreyMatterTM AI Software uses adaptive learning, machine learning and real-time analytics to integrate with GreyOrange intelligent robots to drive high yield performance.

The advanced science and engineering integrating real time data between GreyMatter and Rangers generates 360° operational awareness so the GreyOrange FOS can orchestrate inventory in motion with the flow of the floor and at pace with demand. Their line of Ranger[™] robots includes models such as the Ranger[™] Goods-to-Person mobile robot, the Ranger[™] Mobile Sort and the Ranger[™] Pick bot.



Learn more about their operations and career options in 5 different countries at their website here.

Amazing Innovation- 175

NASA ASTHROS

Work has begun on an ambitious new mission that will carry a cutting-edge 8.4-foot (2.5-meter)



telescope high into the stratosphere on a balloon. Tentatively planned to launch in December 2023 from Antarctica, ASTHROS (short for Astrophysics Stratospheric Telescope for High Spectral Resolution Observations at Submillimeter-wavelengths) will spend about three weeks drifting on air currents above the icy southern continent and achieve several firsts along the way.

Managed by NASA's Jet Propulsion Laboratory, ASTHROS observes far-infrared light, or light with wavelengths much longer than what is visible to the human eye. To do that, ASTHROS will need to reach an altitude of about 130,000 feet (24.6 miles, or 40 kilometers) — roughly four times higher than commercial airliners fly. Though still well below the boundary of space (about 62 miles, or 100 kilometers, above Earth's surface), it will be high enough to observe light wavelengths blocked by Earth's atmosphere.

Source: https://scitechdaily.com/nasa-asthros-stratospheric-balloon-the-size-of-a-football-stadium-will-carry-a-cutting-edge-telescope/

Amazing Innovation- 176

Commercial Wireless Power Transmission



A New Zealand-based startup has developed a method of safely and wirelessly transmitting electric power across long distances without the use of copper wire, and is working on implementing it with the country's second-largest power distributor, Powerco. Emrod currently has a working prototype of its device, but will build another for Powerco, with plans to deliver by October, then spend several months in lab testing before moving to a field trial. The prototype device will be capable of delivering "only a few kilowatts" of power, but can easily be scaled up.

The system uses a transmitting antenna, a series of relays and a receiving rectenna (a rectifying antenna capable of

converting microwave energy into electricity). Its beams use the non-ionizing Industrial, Scientific and Medical band of the radio spectrum, including frequencies commonly used in Wi-Fi and Bluetooth.

Source: https://newatlas.com/energy/long-range-wireless-power-transmission-new-zealand-emrod/

Alumni Info



Sridhar Thiagarajan writes to Dr. Satheesh Kumar G

Sat, Aug 1, 9:56 AM

Hello Sir,

How are you? Hope you are doing well amidst the situation..things seem to be especially bad in India so hope you are taking care with family.

I am happy to inform you that I just graduated from Oregon State last month. I've joined a robotics startup in Cambridge, USA called <u>Pickle Robot Company</u>. We are working on automation for the logistics sector, particularly in unstructured settings. So I have joined the ML team here.

It's a small group of 15 or so people mostly from MIT (locals), so thought it would be a good experience for me to join a startup initially. Let's see how it goes.

How is everything at your end? I suppose it must be hard to conduct remote class, especially with SSN students :) .

Maybe we can chat on Hangouts sometime soon. Will keep you posted.

Take care,

Sridhar

His blogspot: https://sridhartee.blogspot.com/p/about-me.html

MS Applicant Alumni Survey - An Aspire Initiative

The Aspire team at the suggestion of most of the present MS aspirants has decided to reach out to passed out SSNites who pursued or are currently pursuing MS to pool information about the application process, universities, courses, scholarships, admission criteria, etc. The Aspire team writes through mail to the ex-students:

Hello SSNites!!! Hope you are all doing well in these difficult times. As you may very well be aware, the application season for current MS aspirants is imminent. Attached to this mail is a Google form for yesteryear MS applicants which we request you to spare a few minutes and fill in with the details enquired about. This is for the purpose of MS aspirants in their final year and also for the upcoming batches. The survey will serve as a goldmine of information and will help those applying for MS to make better plans regarding the same. Please do help out your juniors and share the given link as much as possible. The information provided will be documented and circulated to the needful as a Google doc. Information regarding the survey will also be published in the upcoming September 2020 issue of Aspire. Thank you in advance!!!!

Warm Regards,

The Aspire Team

Link to fill the form

ALUMNI INTERACTIONS

Mechanical Engineering department SSN College of Engineering 28/08/2020 (10:00-11:00)

"Towards a successful career"

Guest speaker:

Mr. Venkatraman R Deputy Manager Ashok Leyland

About the session:

Mr. Venkatraman R is a proud alumnus L of SSN College of Engineering (batch 2016).

He joined as a lateral candidate and landed a coveted job offer from Ashok Leyland.

S Steve Mitchell >

S Subramanian R >

S Surya Sumanth >

Vinothkumar M >

Calemeeting ^

Calemeeting ^

S S S Steve Mitchell >

S S Surya Sumanth >

Vishnu Srinivasa Prasad V >

He shared his motivational journey, from his academic travails as a lateral student to placements and his work experience at Ashok Leyland.

He credited the Institution and the faculty who were supportive in his skill enhancement, placement and career.

He expressed his gratitude to Dr. Lakshmi Narasimhan N, Dr. Divya John and many more at SSN CE for their pivotal support in moulding him as a stellar professional.

He also interacted with the students and took their queries, among which were the following:

- •Government or private jobs?
- •Job security in core industries?
- Skill enhancement: Hard and soft skills

On the whole, it was an interactive, inspirational and an insightful webinar hosted by Dr. Arun Prakash (Faculty Alumni coordinator) and Mr. M Vignesh (Student Alumni Representative)

The Mechanical engineering department and Alumni Association of SSN CE would like to thank Mr. Venkatraman R for the wonderful webinar.

Forthcoming events

ICRAMM 2020 : Scopus / WoS indexed : Materials Today Proceedings



Last date for full paper submission is 10, September 2020. Visit www.icramm.com



The National Metallurgists Day (NMD) and the Annual Technical Meeting (ATM) of the Indian Institute of Metals (IIM)let you know that owing to the ongoing pandemic the NMD-ATM event to be held at IIT Bombay has been postponed to a later date and the dates will be informed to you soon. An appropriate announcement on the dates and mode of the event will also be made on the NMD-ATM website (https://nmdatm2020.org/).

To reiterate, the ATM will have several theme-based parallel sessions and poster sessions based on contributed abstracts. In addition, Microstructures Contests and Industry Exhibitions will be arranged.

More details are available at the conference website https://nmdatm2020.org/.

INTERNATIONAL CONFERENCE ON APPLICATIONS IN COMPUTATIONAL ENGINEERING & SCIENCES (IConACES 2020), 30th & 31th October, 2020



Organized by the School of Mechanical Engineering VIT

Chennai

Website: http://assltechnologies.com/

Abstract submission link:

https://easychair.org/conferences

International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology (5NANO2021)

in collaboration with

MSME Technology Development Centre, Process & Product Development Centre Ministry of Micro, Small & Medium Enterprises(MSME), Govt. of India Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India.

https://www.5nano2021.com/publications.php#main

tips://www.snano2021.com/publications.pnp#

29th & 30th April, 2021





DST - INDIA-JAPAN COOPERATIVE SCIENCE PROGRAMME (IJCSP) CALL FOR PROPOSALS-2020

DEADLINE DATE FOR SUBMITTING PROPOSALS: 2nd September, 2020

Website: www.dst.gov.in/www.onlinedst.gov.in

DST - National Awards for Empowerment of Persons with Disabilities – 2020Last date for soft-copy

submission: 9 September 2020

Website:

https://dst.gov.in/news/applications-national-awards-empowerment-persons-disabilities-2020

DST - Project Proposal under Indo-Europe on Integrated Local Energy Systems - 2020

Last date for submission of project proposal: 1 September 2020

Website: https://dst.gov.in/callforproposals/india-eu-joint-call-integrated-local-energy-systems

DST - India-Israel Industrial R&D and Technology Innovation Fund (I⁴F)

Last date for submission of project proposal: 7 December 2020

Website:

https://www.gita.org.in/OnlineRfp/ProgramInfo.aspx?GITA=kZdo4yRVS4gRExygXA1GyqVbyWB3io23 meK0IVIdjpY=

https://dst.gov.in/news/india-israel-industrial-rd-and-technology-innovation-fund-i4f

DST - Promotion of University Research and Scientific Excellence (PURSE)

Last date for submission of application: 15 October 2020

Website: https://dst.gov.in/callforproposals/invitation-proposals-purse-scheme

CSIR - CECRI: Industry/ Academic Oriented Technology Refresher Courses - 2020

Fee per participant is Rs. 11,800.00

Last Date for Registration: Course dependent

Website: https://www.cecri.res.in/Academics/Trainingprogrammes.aspx

DST - Call for Popular Science Story Submissions: Augmenting Writing Skills for Articulating

Research (AWSAR-2020): Unleash the Spirit of Science Communication

Last date for the submission of your research story: 30 September 2020

Registration: https://www.awsar-dst.in/member

Project Proposals under IRHPA on Cryo-Electron Microscopy for Macromolecular Structures and

Complexes – 2020

Last date for submission of project proposal: 15 September 2020

Website: https://serbonline.in/SERB/HomePage

Ph.D. Programme (Regular and Part-Time) 2020-2021 in Mother Teresa Women's University

Last Date for receipt of Filled in Application: 07 September 2020

Date of Entrance Examination: 30 September 2020 (Through Online Mode)

Website:

https://www.motherteresawomenuniv.ac.in/Research%20Section/Entrance%20-%20Notification%20

2020.pdf

https://www.motherteresawomenuniv.ac.in/news_events.html

One Week Online FDP on "Research Ethics & Characterization Techniques in Materials Science

Registration fees: Rs. 500

Registration will be closed at 5 pm on 5 September 2020

Link: https://forms.gle/jikkSYQUaFgUX1ou9

Inspiring Life Stories

Be the boss

A horse suddenly came galloping quickly down the road. It seemed as though the man had somewhere important to go.

Another man, who was standing alongside the road, shouted, "Where are you going?" and the man on the horse replied,



"I don't know! Ask the horse!"

Explanation: This is a short but well-known Zen story with a powerful meaning behind it. The horse symbolizes our habit energy. The story explains the way we usually live, at the mercy of our old habit energies which have been established not by our intentional actions, but by our surroundings and mindless activity.

The horse is pulling us along, making us run here and there and hurry everywhere and we don't even know why. If you stopped to ask yourself from time to time why exactly you're running around so much, sometimes you might have an answer, but it's never a very good one. You're just used to it, it's how we're taught to live.

But as much as we run, it gets us nowhere. We need to learn how to take back the reigns and let the horse know who's boss.

You're the boss, you've always been the boss, so start acting like it.

Source: https://buddhaimonia.com/blog/zen-stories-important-life-lessons

Corporate Wisdom 81

From the desk of Ramki — Aspire to Inspire

Happy Morning



There was a Leader called David Samson in Usha Computers and he was a shock absorber of all the tensions that prevailed in the organization. He used to give back in return peace, tranquillity and composure to the organization. He was not the boss that today his mood is out so everybody will get

fired, today he is upset so the whole organization will be in a state of dullness. He was not that kind of boss where today he is happy so everybody is happy. Independent of what was happening in his personal life – ups and downs, in the organization – order received, orders lost, receivable issues, cash flow challenges, people leaving or joining – his personal emotions were never passed on to the team or to the organization or to the people. He was such an amazing person despite all the tensions and emotions. Whatever was the stress that is created - by the customers, by the vendors, by bankers, he will take it and his team will not know about it. Whatever the stress created by his team he will absorb it and his higher management will never come to know about it. In fact he was the source of peace, tranquillity and composure to the whole organization. He was like blotting paper absorbing everything.

Mr. David Samson who epitomized "Let problems come from anywhere, solutions will come from me". Leadership is all about this. Anybody can tell you what the problem is. Leadership is in saying or working towards the solution. He used to keep saying "There is a way and the way is on the way". Today, tomorrow, through me, through you, through the team, through the market – somewhere the answers or solutions will come. Just because we are handling a problem today for which we don't have a solution, it does not mean tomorrow also that we will be handling the problem without a solution.

#WishingMostAndMore

Have a great wonderful day & great week R.Ramakrishnan

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