Newsletter

Volume 10 , Issue 10 , October 2020

SSN Mechanical Engineering

Aspire

Achievements in Sports, Projects, Industry, Research and Education

All About Nobel Prize- Part 82

FREDERICK REINES

Frederick Reines was an American physicist. He was awarded the 1995 Nobel Prize in Physics for his co-detection of the neutrino with Clyde Cowan in the neutrino experiment. He may be the only scientist in history "so intimately associated with the discovery of an elementary particle and the subsequent thorough investigation of its fundamental properties."

Born on the 16th of March 1918 in Paterson, New Jersey, Reines was the youngest of four children. His parents, Gussie (Cohen) and Israel, were Jewish emigrants from the same town in Russia. As a child, Reines enjoyed building things and participating in group singing in school. Music, and singing in particular, was to become a lifelong interest for him. The first stirrings of interest in science that he remembers occurred during a moment of boredom at religious school, when, looking out of the window at twilight through a hand curled to simulate a telescope, he noticed something peculiar about the light; it was the phenomenon of diffraction.

His early education was strongly influenced by his older siblings. Their home had many books due principally to the educational interests of his sister and two brothers, all of whom were serious students engaged in professional studies; his sister became a doctor of medicine, and his brothers became lawyers. His scientific interests also blossomed during his childhood, where he began to build crystal radios “from scratch.”

Reines chose to attend Stevens Institute of Technology in Hoboken, New Jersey, where he earned his Bachelor of Science (B.S.) degree in mechanical engineering in 1939, and his Master of Science (M.S.) degree in mathematical physics in 1941, writing a thesis on "A Critical Review of Optical Diffraction Theory." He continued with graduate studies at New York University, where he worked for a time in experimental cosmic ray physics under the direction of S.A. Korff, and wrote a theoretical PhD thesis on “The Liquid Drop Model for Nuclear Fission” under R.D. Present.

Even before completing his thesis in 1944, he was recruited as a staff member under Richard Feynman in the Theoretical Division at the Los Alamos Scientific Laboratory, to work on the Manhattan Project. During his participation in the Manhattan Project and subsequent research at Los Alamos, encompassing a period of fifteen years, he worked in the company of perhaps the greatest collection of scientific talent the world has ever known.

In 1951, he took a sabbatical-in-residence from his duties at Los Alamos to think about the physics he would pursue in the coming years. It was during this time that he decided to attempt what nobody could; the observation of the elusive neutrino. The idea of searching for the neutrino had, in fact, occurred to Reines as early as 1947, but the opportunity did not present itself. He was now determined to do it, and formed an extremely fruitful collaboration with Clyde Cowan, another Los Alamos staff member.

For their experiment, they initially considered the use of a nuclear bomb test as the source of neutrinos, but soon decided that the reactor at Hanford, Washington, would be better. The experiment used large tanks of water as detectors. Most of the hydrogen atoms in water have a loosely bound proton for a nucleus. Those protons can serve as targets for antineutrinos.

Despite the low probability of the neutrino interaction, the signatures of the interaction are unique, making detection of the rare interactions possible. At those rare instances, when neutrinos interact with protons in the water, neutrons and positrons are created. The positron, then, quickly interacts with any nearby electron, and they annihilate each other. The two resulting coincident gamma rays (γ) are detectable. The neutron can be detected by its capture by an appropriate nucleus, releasing a third gamma ray. The coincidence of the positron annihilation and neutron capture events gives a unique signature of an antineutrino interaction.

After months of data collection, the accumulated data showed about three neutrino interactions per hour in the detector. To be absolutely sure that they were seeing neutrino events from the detection scheme described above, Cowan and Reines shut down the reactor to show that there was a difference in the rate of detected events. The results of their experiments were published in the July 20, 1956 issue of Science.

Following the conclusion of their experiment, Cowan left Los Alamos in 1957 to teach at George Washington University, ending their collaboration. On the basis of his work in first detecting the neutrino, Reines became the head of the physics department of Case Western Reserve University from 1959 to 1966. At Case, he led a group that was the first to detect neutrinos created in the atmosphere by cosmic rays.

In addition to the 1995 Nobel Prize in Physics, Reines has received many other awards, including the J. Robert Oppenheimer Memorial Prize in 1981, the National Medal of Science in 1985, the Bruno Rossi Prize in 1989, the Michelson–Morley Award in 1990, the Panofsky Prize in 1992, and the Franklin Medal in 1992.

Source: https://www.nobelprize.org/prizes/physics/1995/reines/biographical/

Campus Update

Campus Placement Update

This month we received 84 dream offers from Larsen & Toubro Infotech LTI.

18 offers with a CTC of 8.00 lpa; 66 offers with a CTC of 6.50 lpa...

Highest number of dream offers from a single company in SSN placement history

Glad to share with you that Two Students from Final Mech (Batch 2021) got placed in ZF Wabco as GETs with a CTC 5.5 Lpa.

- Arvind Prakash
- Shailesh Kumar

The entire process was conducted online together for Crescent Institute & SSN as a pool placement process this year.

Wabco placement to share....

First they asked for Resumes with 8 CGPA & Above across all depts (both PG & UG) except Civil/Chem/Biomed. About 163 candidates applied from SSN. Then there was a first filtration process and Wabco called only those with 8.5 CGPA and above. The number then got reduced to 40+ with about 28 from SSN and 12 from Crescent. Then there was a GD round and only 24 out of the 40 got through. Great to share that out of the 24 there were 12 from our Mech who got through the GD round. Followed then was an Aptitude Test Round and there were only 12 out of the 24 who got shortlisted for further Tech & HR rounds. In the twelve that reached upto this stage, there were 7 from our Mech!! Post the HR & Tech rounds it was finally *THREE* who made it successful. Again out of the Three, TWO are from Mech and One from ECE.

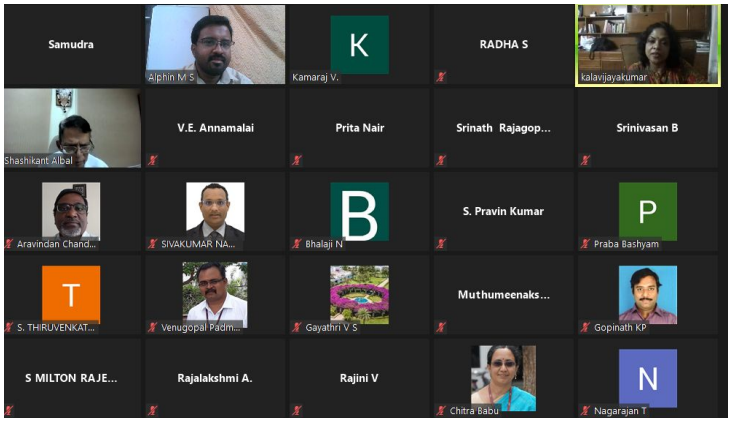
Compared to last year, Wabco's selection was a bit more stringent and challenging this year. Added, the entire Online process gave its "share" on the complexity involved. Great that our students in large numbers gave a Tough Stand throughout the selection process. Kudos !!

At the outset, I join with you all in Congratulating the two students and wish them a Great Career Ahead with ZF WABCO. For the other students, let us all wish a Better Luck for their upcoming placements.

Note: In the Tech interview, SOM, Thermal, Design were the main focus areas + D&F Projects. Actually, D&F helps the students a lot in placements as observed over the last 3-4 years !! Thanks to all of you for the support.

Dr. N. Lakshmi Narasimhan

SCIPE meet held on Sept 7, 2020



Dr. Prita Nair, Dr. Radha and Dr. Alphin shared their department activity in handling Virtual labs and feedback from online classes. Dr. Sivakumar shared best practices, including Virtual site tours, Facilitating visit to sites abroad. Dr.Samudra suggested that Virtual Lab planning must be around Hardware/software makeup and must include more Simulations. Renowned persons must be utilised for their expertise and supported by local faculty for assessments. President suggested that whatever online efforts we do, it should be towards making the students understand that they are being taken care of, during this non-contact period.

Hacksagon 2020 – National Level Competition

Team Members**:** Naveed (II Year), Pranav (II Year), Mouliswar R R (IV Year). [Department of Mechanical Engineering]

Faculty Mentors: Dr. R. Vimal Sam singh (Mech) and Dr. S.Esther Florence (ECE)

Hacksagon 2020 is a national level project competition, organized by ABV IIITM IEEE Student Branch, ABV IIITM, IEEE Bombay Section and six other IIITs (IIIT Una, IIIT Ranchi, IIIT Lucknow, IIIT Nagpur, IIITDM Kurnool). This innovative hackfest invited ideas involving hardware/software development, aimed at providing innovative solutions to problems in society in a cost effective way.

Our team chose to work on baby monitoring through an independent IoT module connected to a smartphone. This project will prove to be useful to not only babies, but also to patients who are unable to move around or mentally challenged. Hacksagon 2020 comprised 3 rounds. The first round involved idea submission. Selected abstracts were selected for the next round and our team was intimidated about the result through mail. The second round was a presentation round, which was scheduled to happen at IIIT Kurnool, Andhra Pradesh on 22th March 2020. But due to the COVID-19 spread, it was converted to a Skype presentation. The presentation was required to cover both the technical and social aspects. The panel members, in particular, focused on the impact of our product on society and also the feasibility of the product to reach the general public. On clearing the second round, the finale was scheduled for Sept. 16, 2020 and was evaluated through an online meeting. The questions were concentrated on both the

technical as well as the commercialization of the product.

The existing baby monitoring products involve the use of cameras and a separate wetness monitoring module for evaluating the wetness of diapers. By using our product, it is possible to monitor a subject's position without any cameras (Position Monitoring Module) to avoid SID (Sudden Infant Death Syndrome) and Positional Plagiocephaly**.** In order to make the product commercially viable additional features such as Geo Fencing and Diaper wetness monitoring was included. The product was enabled to send necessary notifications to a mobile application for real-time monitoring

The Team participated in the competition on the name 'SSN College' and won Third Prize which includes a cash prize of Rs.15,000. We would like to thank our mentor(s) Dr.Vimal Sam Singh / Dr.Esther Florence for guiding us in this project.

Department Update

MECHANICAL ENGG. PLACEMENT UPDATE

The Mechanical Engineering department has opened its placement account!

Company Name: L&T Infotech (LTI - IT Services)

Role: Graduate Engineer Trainee (GET) (Level 1)

CTC : 6.5 lpa

1. VIGNESH M (final year, B section)
2. KHUSHI AGARWAL (final year, A section)

Company Name: ZF Wabco

Role: Graduate Engineer Trainee (GET)

CTC : 5.5 lpa

1. SHAILESH KUMAR (final year, B section)
2. ARVIND PRAKASH (final year, A section)

Dr. N Lakshminarasimhan

International Publication : Edited Book Authored by Dr. Vijayan S and Dr Selvaraj M

STUDENT ACTIVITIES

Date	Activity done during this month
18/09/2020 12/09/2020	*Sabareesh A, 3rd year*, ● Completed an online course on How to speak English professionally in person and online in Coursera. ● Participated in PRATAM 2020 (Product Research and Technical Analysis of Market) conducted by Camo Spectra.
07/09/2020	*Sai Charen V, 3rd year,* ● Completed an online course on Solidworks in Coursera.
01/09/2020 19/09/2020	*Sam Sherin Raj.S, 3rd year,* ● Participated in the ConnectNext conference conducted by La Fondation Dassault Systemes. ● Completed a specialization course on CAD/CAM/CAE for Mechanical Engineering in Coursera. ● Attended webinar on data analysis for engineers and ethical leadership skills.
12/09/2020 17/09/2020 23/09/2020	*Srinath Venkatesh, 3rd year,* ● Completed an online course on Lean Six Sigma- Green belt certification in Coursera. ● Attended a Virtual Industrial Training on Advanced Automotive Systems in Commercial Vehicles conducted by Ashok Leyland. ● Published a paper on Six Sigma Applications in Used Academic Bookstores an International journal for research in applied science and engineering technology (IJRASET)
13/09/2020	*Rahul K, Roshan Ram Dayal D, Sudarsanamurthy TP, Survesh S, 4th year,* ● Participated and secured the First Runner-up position in the national level 30 hour virtual event "PRATAM 2020- Product Research and Technical Analysis of Markets" conducted by Camo Spectra.

List of activities planned for the month of october by LinkedUp – Business Communications Club of Mechanical Engineering

- Introducing yourself – An activity for us to learn how to introduce themselves.
- Debate Session - Debate topics will be given before-hand and people will need to debate on it in groups.
- Group Discussion - Group Discussion topics will be impromptu.
- Feedback Session - Feedback about the club, including new ideas and also activities for the following month.

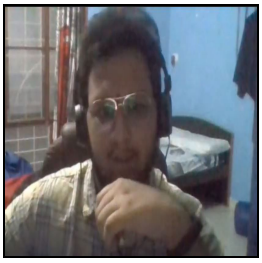
EVENT NAME	DATE
JAM - Just a minute	2nd October, 2020 Friday
Introducing yourself	7th October, 2020 Wednesday
Summarizing COVID days	13th October, 2020 Tuesday
Feedback Session	20th September, 2020 Tuesday (Subject to change based on CAT Schedule)

Linkedup Coordinators

Head of the Department	Dr. N.Nallusamy
Faculty Coordinator	Dr. R.Vimal Samsingh
Overall Student coordinator	Gundepudi V Surya Sashank
Student coordinator	Kalidass S – III Mech
Student coordinator	Kevin Thomas – III Mech
Student coordinator	Venkatesan K – III Mech

LinkedUp – Business Communications Club, September Report

Kalidass S – III Year
Kevin Thomas – III Year
Venkatesan K – III Year
Gundepudi V Surya Sashank – III Year


Session 1 – Significance of Language Proficiency by Murali Satagopan.

On the 9th of September, 2020 Linked-Up held its first session by inviting an esteemed alumnus of SSN College of Engineering, Murali Satagopan. He is well established in the professional environment as the head of partnerships at FreshWorks Inc. He had enlightened the members of the session about the science of communication, the what's, why and how of learning communication. The program was set into motion by a hearty greeting from Dr. Vimal SamSingh and a short introduction about the speaker from Gundepudi V Surya Sashank with nearly 95 people in attendance.

Mr. Murali started off by requesting the members to switch on their video so as to reminisce about how it feels like to be among young minds again. He dived into the definition of communication which he believes it to be the ability to make the other person understand exactly what one wants to say. Murali shed light on

the fact that confidence, clarity-of-thought, preparation and belief in yourself and the knowledge you hold.

He then moved onto why communication is important for one's growth. He covered this topic with himself as an example, showing us how he was mediocre at communication, how he moved out of his shell by writing and practice and finally how it helped him showcase his skills better in his workplace.

He then elucidated on the 'how of communication' by directing us to start reading on a regular basis and also penning our thoughts down.

This way we will not only improve the structure of our sentence but also our confidence. He finally concluded by suggesting everyone to start speaking in English and move a little away from their native language. This causes us to challenge ourselves and move forward, though at the beginning there might be negligible growth within no time we will reach great heights.

The program concluded with an interactive Question and Answer session, where members had asked questions revolving around literature to improve their communications skills and on how other aspects of communication can be improved such as non-verbal communication and having structured thoughts about a single topic. All these questions were well responded to by Mr. Murali and left the members with a feeling of wholeness from the session.

Sashank then gave an introduction to the club and covered what inspired him to start the club, the list of events for the month and a thank you note. Finally, Dr. Annamalai, our honorable principle gave us a small note on the importance of communication. The entire webinar was very inspiring and enlightening and was culminated by a thank you note from Dr. Vimal SamSingh. The entire meeting was recorded and can be viewed by following this link.

Session 2 – Just a Minute (JAM) a public speaking session:

The Just a Minute meeting, the second session from SSN-LinkedUp was held on the 15th of September. The aim of the meeting is meant to improve the confidence of a person, help increase their vocabulary and also learn how to express their thoughts on paper and also into speech. The session started off with a welcome note from Dr. Vimal SamSingh followed by an introduction about the session and what it aims to improve by Sashank. The meeting had a total of 40 people in attendance and the members were split over a total of two hours.

During the session members started coming forward, speaking about relevant and inspiring topics which made the entire session extremely engaging. Some of the topics covered in the session were the aspects and importance of communication, how an entrepreneur thinks, thoughts about the ongoing pandemic facts about various fields revolving around music, biology, morals, movies, things we observe every day and much more. We also came across a lot of personal experiences that everyone expressed which made everyone improve their network and know more about their fellow batchmates.

Some of the speeches were very moving like the one given by Muhilan from MECH B was very touching as he spoke about the time we spend with our parents and how it just goes by so fast. Another speech given by Sharan from MECH C really inspired everyone present as he put into words

the essence as to what members of LinkedUp must do to completely improve their self-confidence, communications skills and also other professional skills. One of my personal favorite speeches was from Abdul Kadir from MECH A as he covered the news revolving around a new movie from Zach Snyder. Some of the other speeches given centered on personal preferences of the members for example Cynthia Joy from MECH A told us about how Bangalore means a lot to her. An extremely relevant speech from Kiran shed light on the new Education Policy in India and how it will help change the future by shaping our younger generations. Gautam from MECH A and Tharun spoke about self-confidence and how it really helps define the person

Nearly everyone in the session was very interactive and had showcased immense confidence and communication skills, however mentioning every name will take a lot of time. In case you too want to improve your communication skills or know more about the people you study with, come forward to attend the future sessions of the club (for III Years). The entire session was immensely thought provoking, inspiring and also extremely educational for everyone. The meeting concluded with a thank you note from Dr. Vimal SamSingh and also one from Sashank.

Farewell to Dr. Somasundaram S

We wish you great success in your next position in NIT Puducherry. **Farewell**. “We will miss your contributions to the team. Let's continue to keep in touch.” “It was great to work with a colleague with a great sense of patience and cool nature”.

Faculty Write up

AICTE sponsored online FDP - Resource Person

Dr. L.Poovazhagan, Assoc.Prof./Mech., delivered a webinar at AICTE sponsored online FDP program organized by the IFET college of engineering, Villupuram on 8.9.2020. The topic of the lecture is “Nanomaterials Applications in Industry 4.0”. Title of the FDP program: Cyber-physical Manufacturing Systems For Future Industries (CPMS).

Confirmation DC meeting

Dr. M. Nalla Mohamed, Associate Professor, conducted the confirmation DC meeting for the part time research scholar Mr. G. VR. Sakthivel (Reg No: 1512259179) through zoom online platform on 07.09.2020. Dr.Shahul HamidKhan, IIITD&M, and Dr. Gnanavel Babu, Anna University are the DC members.

Faculty Development Programme attended

- Dr. R. Damodaram

Attended One Week Faculty Development Programme (FDP) On Advances & Recent trends in Additive manufacturing 21st - 25th September, 2020 Organized by Department of Mechanical Engineering, Vasireddy Venkatadri Institute of Technology, Guntur, Andhra Pradesh Sponsored by AICTE.

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Dr. Koteswara Rao's Presentation to ARMREB, DRDO on External Funded Project and Invited lecture to IWE

Online presentation of Progress Report to the Armament Research Board (ARMREB, DRDO). Externally funded Project titled "Optimizing the Ballistic Performance of AA7075 thick plate Friction Stir Welds".
Chairman of the Materials for Armament Applications (MAA) panel and a couple of members appreciated the work done and presentation

Invited lecture on " Basics of Weld Design" for a group of industry participants in the International Welding Engineer (IWE) course (Transition route) conducted by Indian Institute of Welding, Kolkata

Delivered lecture on "Thermal energy storage"

Dr. N. Nallusamy, Professor delivered lecture on "Thermal energy storage: Types, Materials and Applications" at ATAL FDP organized by Velammal Engineering College, Ambattur, Chennai on 21.09.2020.

Dr.S.S.Suresh Kumar has delivered an invited lecture for the AICTE sponsored faculty development program on September 10th 2020. The FDP was organized by the Aerospace department of MLR Institute of Technology, Hyderabad. The title of the FDP was "Nano Composites and Smart Materials".

Research Proposal Submitted

Dr.R.Vimal Sam Singh submitted a Proposal as PI on the Title 'Design and development of a novel mechanized book reading unit using eye gaze tracking for effortless control for quadriplegia patients' along with CO-PI : Estherflorence of ECE Department to Sree Ramakrishna Paramahamsa Research Grant 2020. Project Value Rs. 41,79,264/-

Conversation between Dr. Kala Vijayakumar, President, SSN institutions and Mr. Sridhar Vembu, Co-Founder and CEO of Zoho Corp

- Dr. K.S. Vijay Sekar, Assoc. Professor tunes in on this delightful tete-a-tete

I had an opportunity to tune into a remarkable conversation between Dr. Kala Vijayakumar, President, SSN institutions and Mr. Sridhar Vembu, Co-Founder and CEO of Zoho Corp on September 10th 2020. Mr. Sridhar Vembu owns 88% of Zoho with his family, started the business as Advent Net along with two siblings and three friends. Today, Zoho has more than 50 million users worldwide, with Zoho One, its flagship product with more than 40 apps. Mr. Vembu has a PhD in Electrical engineering from Princeton and started his career at Qualcomm in 1994. Zoho is building a new 375-acre campus in Austin, Texas, which will also house its Zoho University.

The conversation brought out the humane aspects of a front running and high end achiever who spoke about how he values human relationships, nurtures them and how this human centric approach is central to the success of Zoho, which is one of the popular destinations for potential graduates. He worked his way up from being a Tamil medium student till the X standard, but his penchant for reading the Indian Express Newspaper - cover to cover, got him learning the language and move up the ladder, which our President said would be an inspiration for SSN's first generation learners, who are predominantly Tamil medium students.

For a question on his vision to start a software business, Mr. Vembu started with a hardware business and spent his hard earned money there, but eventually moved into the software due to lack of money to invest in hardware and he related his sojourn in the software arena to a movie making business, where it could see saw between a failure and a blockbuster anytime.

On a question on the role of academics, he was candid in his observation that a lot needs to be done to make students be ready to take on leadership roles in entrepreneurship moving ahead of the routine exam culture.

He stressed on the stringent quality checks and feedback that are done to the products, before they are launched being one of the strengths of the Zoho culture.

It was heartwarming to note that he has taken his World class company to the villages, with three offices located in villages, and plans to take it to more villages in and around Tamilnadu. What a pioneering thought

indeed, and what's more refreshing is that he himself is working out of a small village in idyllic Tenkasi, feeling thoroughly refreshed in the lap of nature.

On a parting note on where he saw the future of the software industry, he said that we need to build our own technology and not rely on imports for all the components needed and he sees a lot of promise in this arena going forward.

He also firmly believes that one needs to make mistakes to succeed in life and quoted Buddha who said that in order to appreciate non suffering, one must suffer first.

The conversation between our President Dr. Kala Vijayakumar and Mr. Sridhar Vembu was a meaningful and thoughtful one with lots of inspiring quotes and shared experiences being at the heart of it.

Faculty Monthly Activities and Publications:

Dr. N Nallusamy,s research scholar Mr. V. Venkatesan (part-time PhD under Anna University) submitted his thesis titled "Performance, combustion and emission studies on Twin cylinder automotive diesel engine using pine Oil and soapnut oil biodiesel blends as alternate Fuels" on 01-09-2020.
Dr. R. Prakash, Associate Professor, Participated an AICTE Sponsored Six days online Short Term Training Programme (STTTP) on “Electric Vehicles: An opportunity for India” from 7th September to 12th September 2020 organised by the Department of Mechanical Engineering, R.M.K College of Engineering and Technology, Tiruvallur Dt, Tamil Nadu.
Chemmal Swami Durai C, ME (Final Year -Energy Engineering) under the guidance of Dr. A S Ramana, Asso. Prof./Mech. with assistance of Mr. Faris Ahmed AICTE NDF Research Scholar submitted a proposal for funding on project titled Experimental Analysis of Energy Recovery ventilator combined with UVGI for IAQ Enhancement under ISHRAE –PG student Research Project Grant for a funding of Rs.98,890/- on 8th Sep 2020.
Dr.M.Nalla Mohamed, Associate Professor, Conducted the confirmation DC meeting for the part time research scholar Mr.G.VR.Sakthivel (Reg No: 1512259179) through zoom online platform on 07.09.2020. Dr.Shahul hamid khan, IIITD&M, and Dr.Gnanavel babu,Anna University, are the DC members.
Dr. S. Rajkumar, Associate Professor, participated and completed successfully, AICTE Training and Learning (ATAL) Academy Online Faculty Development Program on "Solar Energy: Technologies and Application from 21.09.2020 to 25.09.2020 organised by Jyothi Engineering College, Thrissur.

Dr. K.S.Vijay Sekar, Asso.Professor, participated in a One Week Research Webinar series on "Researches in Surface Engineering for Reliable Tribology" under TEQIP III, organised by the Department of Mechanical Engineering, GIMT, Guwahati in collaboration with Assam Science & Technology University (ASTU).

Dr. K.S. Vijay Sekar, Asso. Professor participated & completed successfully the One Week - AICTE Training And Learning (ATAL) Academy - Online FDP on "Leadership & Excellence", organised by PDPM Indian Institute of Information Technology, Design & Manufacturing,Jabalpur.

Dr. K.S. Vijay Sekar, Asso. Professor participated in the webinar on " BlockChain and its Impact on Current Business Scenario", organised by the Institution of Engineers as a part of the Royal Charter Day celebrations.

Dr. K.S.Vijay Sekar, Asso.Professor participated in the Examiner report evaluation meeting as a DC member for a PhD Scholar registered under Anna University, Chennai.

Dr. K.S.Vijay Sekar attended a webinar "Conversations" on September 10th, 2020, featuring Mr. Sridhar Vembu, CEO and Co-Founder, Zoho Corp in conversation with Dr. Kala Vijayakumar, President, SSN Institutions, organised by the Shiv Nadar Foundation.

Dr. K.S.Vijay Sekar, Asso.Prof participated in the National E -Conference on "Nutrition and Physical Fitness for Healthy Life", organised by College of Horticulture, Bengaluru.

Dr. K.S.Vijay Sekar, Asso.Professor, submitted a Funded project proposal to conduct a High End Workshop on " Automation Tools and 3D Printing" to SERB under the Accelerate Vigyan Scheme

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Dr. K. L. Harikrishna and Dr. R.Vimal Samsingh of Department Mechanical Engineering Organized three International Webinar from 19-9-2020 to 20-9-2020
Webinar 1: Selectivity Of Porous Composite For Fuel Cell In Aerospace Applications
Webinar 2: Ethical Leadership
Webinar 3: Skills On Data Analytics For A Modern Day Engineer

Dr. Satheesh Kumar Gopal conducted the IQAC external academic audits for the Department of Mathematics on 28.09.2020 and for the Department of Computer Science and Engineering on 29.09.2020

Dr. N. Laskhmi Narasimhan and Dr. R. Vimal Samsingh submitted the AICTE-CII Full Survey data to AICTE.

Dr.S.Vijayan has presented a paper entitled " Sliding Wear Behaviour of TIG Cladded AZ31B Magnesium Alloy Composite Reinforced with Calcium Oxide, Boron Nitride & Silicon Carbide" in the international virtual conference on Sustainable Technologies for Energy and environment on 14.08.2020 conducted by Mohamed sathak AJ College of Engineering,Chennai

Dr. S.Vijayan has presented a paper entitled " Study of Mechanical and Metallurgical Properties of AZ31 Magnesium Composite " in the international virtual conference on Sustainable Technologies for Energy and environment on 14.08.2020 conducted by Mohamed sathak AJ College of Engineering,Chennai

Dr. S.Vijayan, Associate Professor participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Operations Management" from 2020-8-31 to 2020-9-4 at Sri Sai Ram Engineering College.

Dr. Alphin M S paper along with Tony, B Jain AR;; Shah, Nishanth P; titled Static Deformation Analysis with and Without Piezo-electric Material Attachment in Hydraulic Suspension System, Trends in Mechanical and Biomedical Design, 979-986, Springer, Singapore

Dr. Alphin M S paper along withTony, B Jain AR; Venkatesh, Vishal; titled Influence of Vibro-isolator Attachment for a Jackhammer to Reduce Vibration Discomfort, Trends in Mechanical and Biomedical Design, 995-1003, Springer, Singapore.

Dr. Alphin M S paper along with Tony, B Jain AR; Yeshwant, V; titled Power Generation from Hydraulic Shock Absorber Using Piezoelectric Material, Trends in Mechanical and Biomedical Design, 971-977, Springer, Singapore

Dr. S.Vijayan, Associate Professor has published a research paper entitled "Study of Vibration and Tensile Characteristics of Multilayer Composites" in Lecture Notes in Mechanical Engineering

Dr. R. Damodaram, Associate Professor, Participated One day webinar on SEM and Its associated Techniques

Dr. K. Jayakumar, Associate Professor has published the following three journal papers in Scopus indexed journal.
1. K. Jayakumar, Optimization of process parameters for EDM of Inconel alloy 625. Lecture Notes in Mechanical Engineering, 2021. Vol. 2, pp 897-904.
2. K. Jayakumar, Quality assessment studies on AA7075 plate in rolling process, Lecture Notes in Mechanical Engineering, 2021. Vol. 2, pp 619-625.
3. K. Jayakumar, Comparative study of ball nose and flat end milling processes on A356 alloy/SiCp metal matrix composite, Lecture Notes in Mechanical Engineering, 2021. Vol. 2, pp 487-495.

Mr. D. Ebenezer, Assistant Prof, published a paper with Anush Lakshman S, Application of principles of Artificial Intelligence in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Vol. 912 (2020)

Student write-up

VIRTUAL RECRUITMENT

I'm Vignesh M, final year (2021). I got a job offer from L&T Infotech (LTI*) this month. (GET VI)

**LTI is a subsidiary of Larsen and toubro limited*

LTI is a global technology and digital solutions company. The company operates in 32 different countries and serves 420+ clients.

Aptitude test: (72 questions)

Verbal ability, logical reasoning, Arithmetic Aptitude, technical (basics of DBMS, OS, OSI, C, SDLC), Content writing and a programming question in any preferred language.

Technical interview:

I was asked to write nested RDBMS queries and some questions from python were asked.

HR (1) interview:

Typical HR questions, questions from resumé were asked.

HR (2) interview:

This round was totally uncalled for. The questions asked in this round didn't justify its title.

Questions on software development, software testing, app development and AI were asked.

Number of offers: 84/563 (only 3 from non circuit branches)

Feel free to contact me for more information : +91-7401331497

I am Khushi Agarwal from 4th year Mech (2021). I recently got placed in Larsen & Toubro Infotech (LTI).

LTI visited our college in the month of august. Due to COVID - 19 pandemic, pre placement talk and recruitment process was held online.

The first round was an online test consisting of 2 levels. The first level consisted of sections on quants, logical, verbal and basics of programming. The second level consisted of one programming question to be attended in any programming language within 45 minutes. Here time complexity and time of compilation mattered. This round was proctored via video.

Students who cleared first level were selected for a different package than those who cleared both levels.

The second round was a technical interview. Here questions were asked on the basics of any programming language that the candidate knew.

The third round was HR. It consisted of all standard questions like questions related to relocation, and working in shift and concerns regarding shifting from mechanical to IT field.

The fourth round was called HR but it was 70% technical and 30% HR. Here questions on SDLC and DBMS were asked.

I am Shailesh Kumar from 4th year Mech (2021). I recently got placed in ZF WABCO and I would like to share my experience.

Qualifying CGPA : 8.5 (Changes every year based on the no. of students, last year it was 8.3).
CTC: 5.5 LPA
Mode: Virtual

It was a pool campus drive. Students from Crescent also joined us. Based on the qualifying CGPA, a total of 100 students (ECE, CSE, IT, Mech) were shortlisted for the first round.

First Round: GD (google meets)
There were 12 students in each panel. Our group got the topic “What are your views on the honourable Supreme Court’s decision on the Sabarimala temple?”. The GD lasted for about 15 mins.

Second Round: Online Test
43 students were selected for this round. The test had five sections, questions were easy but time management was the key. The sections were numerical ability, series, vision test, logical ability and technical.

Third Round: Technical Interview (google meets)
12 students from mechanical were selected for this round. The interviewer first asked me some general questions and then the actual interview started with the area of interest. I had mentioned Automobiles(Electric vehicles), Design and Machine Learning as my area of interest. He asked a few questions in automobiles, a lot in the design and none in ML. In the end, a few questions were on my

third-year project. The interview ended with the question "where do you see yourself in the next 5 years?"

Fourth round: Psychometric test
Overall 7 students (2 crescent, 5 SSN) were selected for this round including 2 from SSN mechanical. 96 questions in 20 mins. No rejection in this round.

Fifth Round: HR interview (Telephonic)
He wanted to make sure that I am a team player, flexible and will not go for higher studies. 3 out of 5 were selected at the end which included 2 in mech and 1 in ECE. The confirmation mail was sent to CDC and the PCs informed us about our selection.

I would like to thank the Principal, HoD, FPC, all the faculties of the mechanical department and SPCs for the support and opportunity.

Divyadarshan GM, IV-year, writes…

Hey cricket enthusiasts! Check out my engrossing article published in this renowned sports blog.

IPL 2020 Team Previews: Rajasthan Royals -
https://totalcricketanalysis.com/analysis/team-analysis/ipl-2020-team-previews-rajasthan-royals

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Rahul K, IV-year, writes…

PRATAM 2020 (First Runner-up)

Team name: Vision Quest

Team members: (4th years)

1. Rahul K
2. Roshan Ram Dayal D
3. Sudarsanamurthy T.P
4. Survesh S

The Event:

On the evening of 18th August, we received an email from our HoD, Dr. Nallusamy N, about a

National level training cum competition — PRATAM 2020 (Product Research and Technical Analysis of Markets). I read through the email, and it fascinated me. I asked some of my friends to see if they would be interested in this competition. After some time, I got some responses from my friends; we formed a team and registered for the competition. The event took place on the 12th and 13th of September.

We got our confirmation email two days before the competition. On the day of the event, we had to join a Google meet. This meeting briefed us on both the purpose and the procedure for the event. After a short introductory session, the organizers started to train us for the main event.

The main event took place in 2 segments — Research and information gathering, compilation and presentation. We were provided with a sample template and were trained to execute the market research on the product group allotted to us. Our team was given the product category of Escalators. Given the sparse number of Escalator manufacturers, we found this task intimidating. At the end of day 1, we had to share our progress in the first review. To be honest, we weren't positive about it as we had completed research only on five out of the fifteen manufacturers required. Undeterred, we kept going and pushed it through the night. Our efforts paid off, and we had researched 17 companies before our second review (24 hours from the start).

After the second review, there was another meeting. In this meeting, we were trained to compile all the information we had gathered into a crisp presentation. We were also instructed to make a small 5-minute video about it. We had to upload this video onto a drive and give them the link by 5:00 pm. Making the video and editing it was a difficult task, but we were able to cut close.

The last meeting took place at 8:30 pm. This meeting announced the winners, and we were glad to find that our hard work had paid off as our team bagged the first runner-up prize among the other 450 participants. Along with our certificates, we were given Amazon gift vouchers. Overall, it was a novel experience to work for 30 hours continuously online with friends across the city towards a common goal. I would like to thank our HoD, Dr. Nallusamy N, for letting us know about this opportunity.

(Rahul K)

(Roshan Ram Dayal D)

(Sudarsanamurthy T.P)

(Survesh S)

Srinath Venkatesh, III-year, writes…

It had been around a month since I completed my Yellow belt in Six Sigma and was trying to find out ways to apply my learnings. Recently, I found it difficult to get books due to various reasons for the upcoming semester and wanted to figure out a solution. This allowed me to practically implement the DMAIC methodology and I tried to write a paper on the process in detail to the best of my ability.

Abstract:

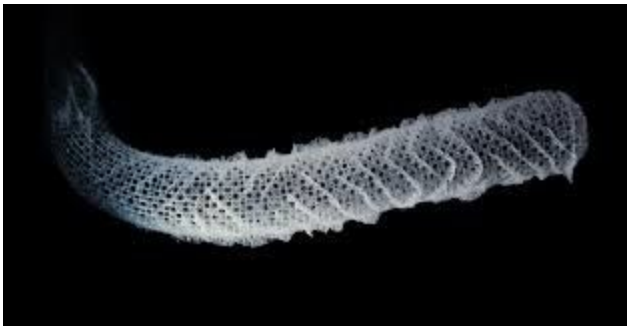
Six Sigma is a quality improvement tool to measure the process outputs for error reducing systems. It aims to maximise customer satisfaction and minimise defects in products and services. To enhance the quality and meet customer expectations, it is necessary to bring in innovation.

This paper presents a brief overview of Lean Six Sigma, its tools and how it can be applied in the second-hand bookstore industry by using principles of enhanced productivity as well as process quality management in a well-defined framework. This study contains a survey of 180 college students (Our target customers) understanding their view on New books vs Second-hand books, the difficulties they face and their view in the implementation of the proposed innovation to improve quality in service as well as maximise customer needs. The proposed new solution will be explained through DMAIC methodology and its superiority to the pre-existing model, and also its benefits to both customers and sellers.

My paper can be accessed at this link: http://ijraset.com/fileserve.php?FID=31112

Mech Marvel - 70

Biomimicry taken to a whole other level



Diagonal lattice architectures are the backbone of typical covered bridges built from light and cheaper materials, making use of tightly arranged diagonal beams to evenly spread the load. Engineers have used this approach since the early 1800s, with the technique also used to support tall buildings and even the metal storage shelves you could find at your local home improvement store. But a team of engineers at Harvard University believes there is room for improvement.

Fernandes and his co-authors from Harvard's School of Engineers and Applied Sciences (SEAS) have been studying the skeletal systems of marine sponges for more than two decades, and have uncovered some new potential in a species known as Venus' Flower Basket, or Euplectella aspergillum.

The skeleton of this glassy sponge relies on an intricate checkerboard-style pattern of diagonal struts connected to an underlying square grid, forming a robust structure that supports the creature's tubular body.

The scientists created an artificial version of this skeletal architecture and, through simulations and experiments, compared its performance as a load-bearing structure to the lattice geometries typically used today. The sponge-inspired architecture outshone them all, improving structural strength by more than 20 percent without the need for additional materials.

The team says this architecture provides the "highest buckling resistance for a given amount of material," opening up some exciting possibilities. This could include new bridges, buildings or even aircraft and spacecraft that make more efficient use of their materials.

"In many fields, such as aerospace engineering, the strength-to-weight ratio of a structure is critically important," says Weaver. "This biologically inspired geometry could provide a roadmap for designing lighter, stronger structures for a wide range of applications."

Watch this YouTube video to get an overview of the research by the team. More details can be found in their research article published in Nature Materials.

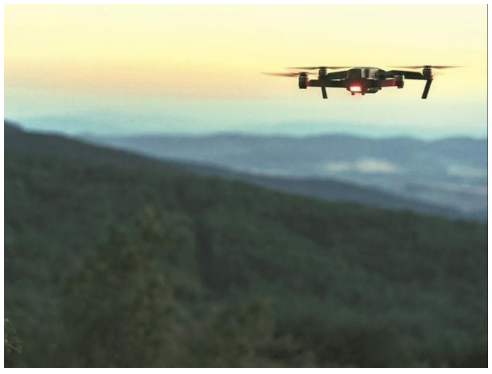
Corporate Story 70

Skylark Drones

Skylark Drones was born out of the need to use drones to help transform the way roads and highways are planned, minerals and metals are mined and pipelines carrying valuable resources are monitored. They have grown and transformed from being drone enthusiasts to alchemists that turn drone data into real world intelligence, and they are just getting started.

Skylark Drones is a technology company that is building the core infrastructure for the global drone ecosystem. Today, their platform empowers Fortune 500 companies with drone analytics, service providers with secure execution of flights and manufacturers with regulatory airspace compliance. They are building ground-breaking AI technologies that transform petabytes of spatial drone data into actionable business insights so their customers can keep abreast with change.

Their major products are Spectra - an integrated drone data platform to visualise your worksite and perform AI-powered analytics, Drone Mission Control - the drone operations management solution to automate planning, accelerate scaling and optimize operations, and DronePass - a hardware module integrating drones all over with India's Digital Sky, while complying with the regulatory requirements outlined by the DGCA.



To establish drone technology as a universal layer of the enterprise stack, the people at Skylark are adopting a long-term 'builder's view'- by engaging with businesses to discover problems, quantify value and craft solutions. To power autonomous aerial missions of the future, they are building a geography-agnostic set of tools that drone fleets of all sizes can use to manage distributed operations with ease. Their list of customers boasts some impactful names, like Tata Steel, Bosch, L&T, Reliance Infrastructure and Ultratech Cement among many others.

If this company sounds like somewhere you'd like to work some day, you can take a step in that direction by applying through their website here.

Amazing Innovation- 177

140 MPH QUADCOPTERS

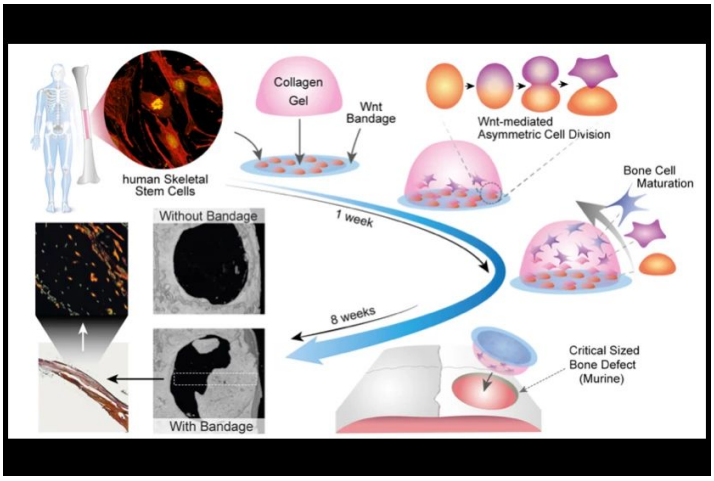
If there's one thing that all types of first responders have in common, it's the fact that they put a premium on speed. The Recruit quadcopter was created specifically for such users, as it can reportedly fly at over 140 mph (225 km/h) and has a claimed 3-hour flight time.

Designed by Atlanta-based drone manufacturer Sonin Hybrid, the carbon fiber-bodied Recruit, appropriately enough, has a hybrid power system. More specifically, it incorporates a gasoline engine hooked up to a generator, which in turn continuously charges the batteries for the four electric motors.It is this setup that is said to make the long flight time and energy-hungry high speeds possible. By contrast, pure-electric quadcopters typically top out at about 30 minutes of flight time, and a maximum forward speed of 45 mph (72 km/h).

Source: https://newatlas.com/drones/sonin-hybrid-recruit-drone/

Amazing Innovation- 178

BONE HEALING BANDAGE



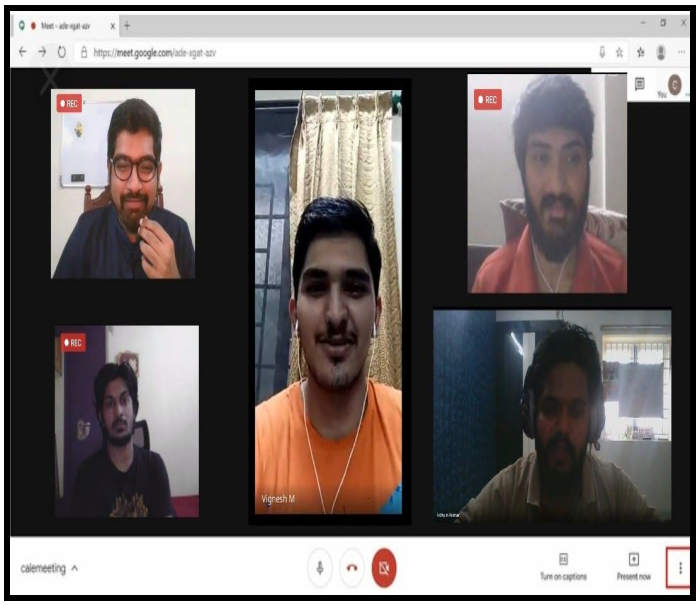
Recent innovations saw scaffolding-like materials that are implanted into bone fractures, prompting the body's own bone cells to grow into them and heal the break. Now, however, scientists have developed a special bandage that may also do the job. Developed by a team at King's College London, the "bone bandage" is made of a flexible, biocompatible, biodegradable material, which is coated in a protein that naturally prompts growth and repair in the body. When that bandage is surgically implanted onto the break site in a bone, it reportedly boosts the healing time considerably. Once the bone has healed, the bandage harmlessly dissolves, getting absorbed by the body. To boost its effectiveness even further, the material can also be loaded up with a three-dimensional collagen gel containing bone cells that were grown (in the lab) from the patient's stem cells. In that case, the bandage is actually inserted into the fracture. The gel then supports the cells as they grow and fill in the break.

Source: https://newatlas.com/medical/bone-healing-bandage/

Alumni Info

ALUMNI INTERACTIONS

Ep 2: "*Smorgasbord of Alumni*"



29th August, 2020

Alumni Speakers:

- Dhruv Parthasarathy
- Deepakram K G
- Bharatram Santhanakrishnan
- Ashwin Kumar Rangarajan

About the session:

Following a welcome note from Dr. Arun Prakash (Faculty Alumni Coordinator) and M Vignesh (Student Alumni Representative), the session started off with the self introduction of each alumnus.

Later, Ashwin Kumar reminisced about his placement past and shared his work experience at Royal Enfield. Then Dhruv Parthsarathy and Bharatram shared their professional experience in the field of product and software development.

Finally, Deepakram acquainted us with a plethora of unheard opportunities in the realm of EDUCATION AND TEACHING. He also shared few of his accomplishments from his Teach For India fellowship.

All four were so cordial, interactive and dynamic throughout the session. They answered all our questions with alacrity.

All in all, it was an exciting and engaging webinar from the ingenious stalwarts of Mechanical Department.

Heartfelt gratitude to the speakers for their time and insights from the Mechanical Department and SSN Alumni Association.

Ep: 3*: "5 key things every student should know about entrepreneurship"*

14th September,2020

Alumni Speaker:

Mr. Madhivanan G

Founder and Managing director of GoalMotiv Academy

Interactions:

Mr. Madhivanan G ,(Batch 2012), paid a virtual visit to the campus.

He had a stimulating conversation with the young'uns of the institution about entrepreneurship. He delivered an engaging presentation, elucidating the nitty-gritty of entrepreneurship while demystifying the misconceptions around the buzzword.

He also disclosed his secret sauce for successful venture investments and shared the "5 important things every student should know about entrepreneurship".

The session concluded with a Q&A session.

The Department of Mechanical Engineering and SSN Alumni Association would like to thank him for his time and insights.

Ep 4: *"Virtual Group Discussions"*

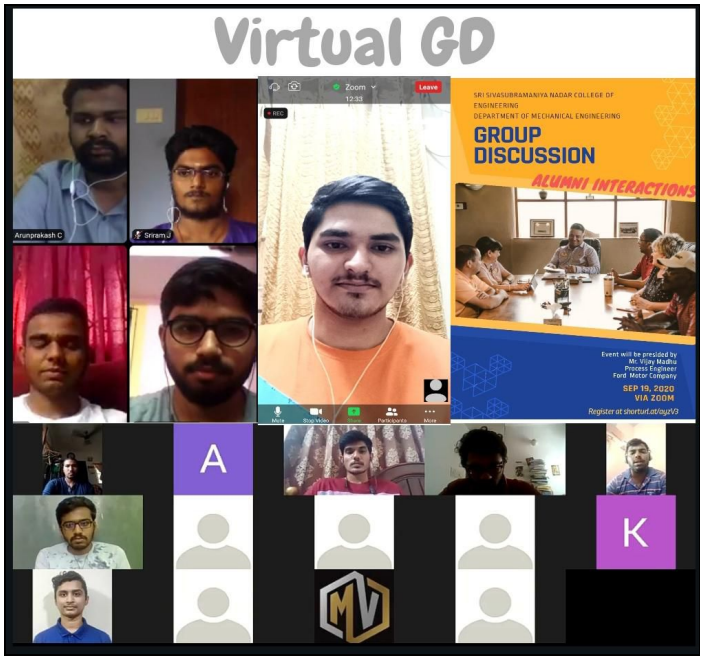
19th September, 2020

Alumnus:

Mr. Vijay Madhu

Process Engineer

Ford Motor Company



Interactions:

The alumni team of mechanical department conducted a Virtual Group discussion event to help students prepare for the GDs of the upcoming placement season.

Mr. Vijay Madhu (Alumnus, Batch 2015), was invited to moderate the discussions.

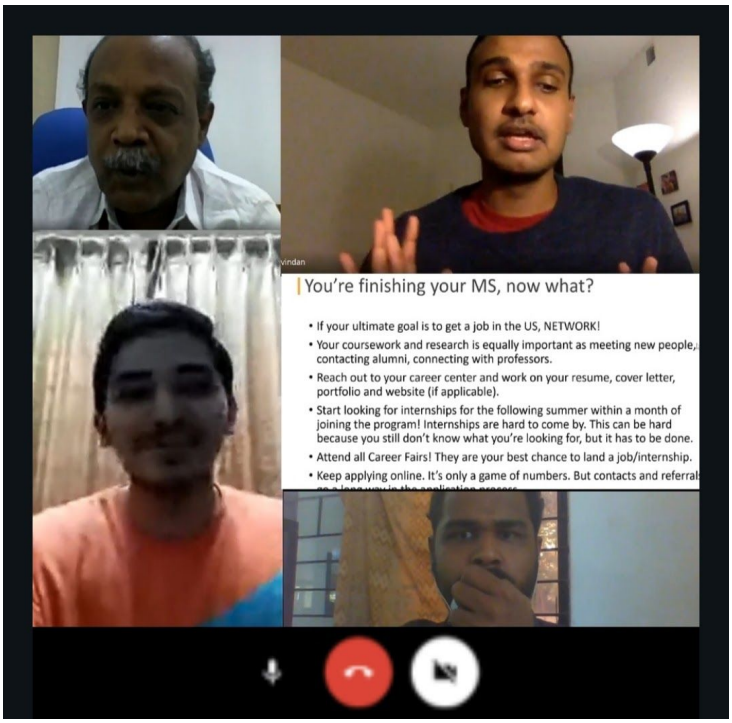
4 teams of 6 members each participated and spoke on a variety of subjects.

Time box for each discussion was 10 minutes and the event culminated with a Q&A session. Mr. Madhu appreciated the students for their avid participation and suggested them few areas of improvement.

The students found the session to be productive and informative.

The overall event was planned and orchestrated by Dr. Arun Prakash and Mr. M VIGNESH (Alumni Team, Mechanical department). The Department of Mechanical Engineering and SSN Alumni Association would like to thank him for presiding over.

Ep 5: *"SSN to STANFORD"*



23rd September, 2020

Alumnus:
Mr. Akshay Aravindan
Mechanical Engineer
Applied Materials

Interactions:
Mr. Akshay Aravindan (Alumnus, batch 2018) interacted with the students today.
He recounted his eventful journey from SSN College of Engineering to his grad school, Stanford University.
He gave an engaging presentation which had many valuable takeaways for the students aspiring to pursue masters abroad.
Dr. Ve Annamalai, Principal participated and honored the session.
At the end, the time was turned over to the students for a Q&A with the alumnus.
The Department of Mechanical Engineering and SSN Alumni Association would like to thank Mr. Akshay for his time and insights.

ALUMNI WRITE UPS FOR PLACEMENT SEASON 2020

Rahul B writes...

The WABCO selection process was a pool campus drive with around 130 students (UG & PG) for the year 2019-2020.

First Round: Group Discussion

Second Round: Online Test

The online test was quite different from other company tests as it did not have usual quantitative aptitude and logical questions.

First Section: It was an arithmetic round. The questions were on basic arithmetic operations with whole nos. and decimals. Time was key in this section as we were asked to solve 20 questions in 5 mins. Hence, before you start with the test you must be ready for it as you cannot waste any time. E.g.: 2*5*7*4/ (2*2*2) =?

Second Section: This round involved completing the sequence. You will be given a numerical or alphabetical sequence with a missing character. You will have to find that missing character. Total 14 questions in 5 mins. E.g.: 1 3 5 7? a c f j?

Third Section: The third section was a vision test. We were given a long code with around 20 alphanumeric characters. It was followed by 4 options with the same code but with very small changes like D was replaced by 0 or B was replaced with 8 etc. We will have to choose the option which exactly depicts the initial code given in the question. Totally 10 questions in 5 minutes.

E.g. A4B5E78RGHUI56ST67

One of the incorrect options given was A4B5E78RGHUIS6ST67?

Fourth Section: This section was a logical ability round with choosing the right pattern which matches the missing section in the larger pattern given in the question. Totally 14 questions in 5 minutes.

Fifth Section: This section was a technical MCQ round with 20 questions covering almost all subjects like SOM, Thermal, Manufacturing etc. There were 2 problems asked in the test. The test was for 15 minutes.

Third Round: Technical Interview

Fourth Round: Was a psychometric test.

Fifth Round: HR Interview

Divakar R writes…

The placement process for ZoomRX was quite elaborate and consisted of 6 rounds of shortlisting and a full day worth of processes. The first round was a cognitive test which was written on Thursday (8th August 2019). Here you are asked to answer 50 questions in 12 minutes and the questions are from English and basic arithmetic. The maths part was very easy; however, I would say that the English was of a bit higher difficulty. This was the preliminary round and the shortlists of this round were asked to attend the rounds on Monday (12th August 2019).

Now, on the day, we had a small presentation regarding what the company does and details regarding our package. Then we were subject to yet another round of online tests. Yes, tests - plural. We had to write yet another cognitive test (of the same sort as mentioned earlier) followed by an online test consisting of 4 sections - verbal, quants,Data Interpretation, Writing. All the sections were of high standard and quality, though the DI and verbal were of the highest quality; quants were doable and the writing section was easy.

The people shortlisted from this round had to take our GDs next. Now this was a different kind of GD than what was held by other companies. The presider had asked to ignore time limits and talk freely and completely of all the ideas that we had - and was true to his word. We took about 10-15 mins for our GD and everyone in our group barring one made it to the next round.

The next two rounds were the most arduous of them all. The fourth round was the technical interview and a LOT of people were eliminated from this round. Every interviewee was put to the task for an average of 45 mins each. The questions asked were aptitude and qualitative analysis. Aptitude topics concerned were of a wide range - from mixtures and allegations to ratios to taxes and such. They

were of medium/easy difficulty but doing them on the spot was quite difficult. The analysis questions were easy, but you had to think from different perspectives. What worked for me was airing my thinking methodology to the panel and I suggest everyone do the same.

The fifth round was a specific interview where you are interviewed for the role that you chose/were chosen for. In my case it was the community associate position and I was asked on various scenarios that may occur in the workplace and how I would react to each and every one of them. In total, I was asked 5 of these questions and it took about 45 mins for the round. They clearly wanted to test how much of a people person I am.

The final round was an HR interview where they asked questions regarding your resume and it was quite easy. The interviewer was a friend and made me feel at home and I enjoyed talking with him. After all these rounds they asked us to leave for the day and that they would communicate the results through our placement cells. I went home, obviously nervous. I had received the news that I was selected at about 9:00 pm and was elated and thankful. 108 of us had appeared for the interview that day, and only 6 of us were selected.

Dr. C. Arun Prakash writes...

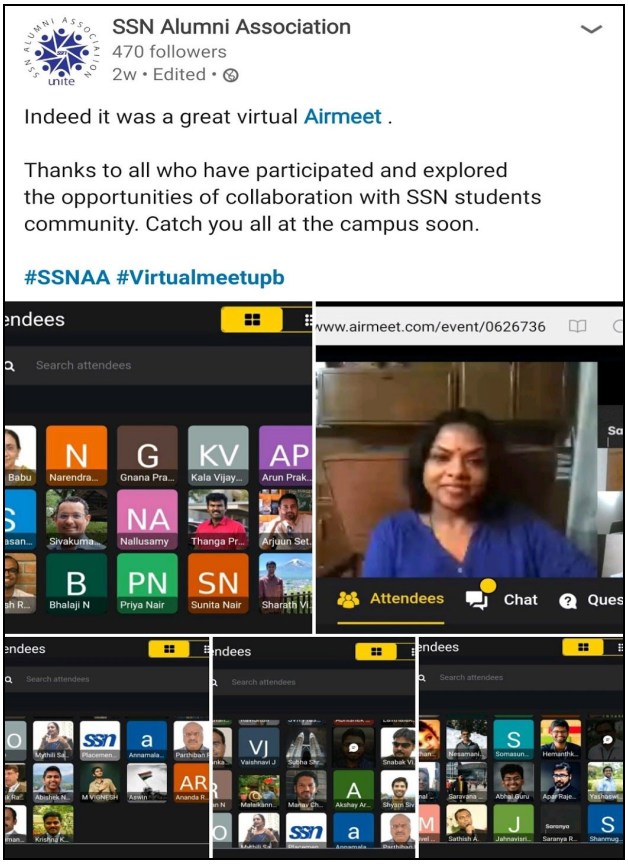
Virtual Alumni Meet held on Sept 5th, 2020

On Teachers day, a virtual Alumni Meet was organised by the Alumni Association of SSN via Airmeet platform. The members of the meeting were

- Ms. Kala Vijayakumar, President
- Dr. V.E.Annamalai – Principal
- Mr. Ananda Raman - Assistant Director, Marketing
- HoDs of all departments
- Faculty Alumni Coordinators
- SSN Alumni Association Office Bearers
- Alumni of SSN

Ms. Vaishnavi, Secretary, SSN Alumni Association started the meeting with teachers day wishes. She listed the agenda of the meeting.

Ms. Kala Vijayakumar, President, SSNI, delivered the welcome address. She mentioned that the strong point of SSN is its bond with the Alumni. She updated the activities of SSN to the Alumni.



Some updates given by Ms. Kala Vijayakumar

- Why We received around 8000 filled in application forms for just 300 management quota seats

- We provide Rs. 65 lakhs per year to students to carry out their projects under Student Internal Funding Scheme
- We have built a world class cricket and football ground with stadium
- We are going to complete an indoor sports stadium

She also mentioned that any institution should not work for what we want one year from now, instead we have to work for what we want 50 years from now. SSN will be one among the top institutions in the world fifty years from now, she mentioned. She thanked the office bearers of the Alumni association for contributing back to SSN and also mentioned that alumni will be the strongest pillars supporting SSN in future.

Two videos : Achievements of SSN & Movies at SSN were played.

Naren Sundaram, President, SSN Alumni Association introduced the Alumni Association office bearers and mentioned about the Alumni Avenue at our campus. He also talked about the mentorship program that is to be launched for rural students. He shared a few photos taken during his college times and shared his memories.
Ananda Raman, Assistant Director, Marketing, SSNI briefed about the SSN Incubation centre.
Then the Alumni were given an opportunity to share their thoughts.

Finally Dr. Sunita Nair ended the meeting with a vote of thanks.

ALUMNI VISITS TO THE CAMPUS

Maniraj Krishnan 2016 passed out batch visited our campus on 26th September. He is now working as Assistant Manager in TVS sundaram fasteners ltd

Sudharsan 2016 passed out batch visited our campus on 28th September. He is currently doing his PhD at IIT madras,

Sarandev Anbarasan 2016 passed out batch visited our campus on 28th September. He is working in TVS as Assistant Manager

Do follow the LinkedIn page of SSN Alumni Association and sign up to Almaconnect for more Alumni related update

Forthcoming events

From Multiple Sources

International Conference on Advances in Materials, Mechanics, Mechatronics and Manufacturing (IC4M-2021) Event Date: **March 06-07, 2021** Link: http://ic4m.in/
National Aeronautics and Space Administration NASA Headquarters Last date for submission of project proposal: **01-Oct-20** Link: https://www.grants.gov/web/grants/search-grants.html
Agency for International Development Ethiopia USAID-Addis Ababa Strengthening Accountable Governance and Civic Engagement Last date for submission of project proposal: **05-Oct-20** Link: https://www.grants.gov/web/grants/search-grants.html
National Archives and Records Administration Public Engagement with Historical Records Last date for submission of project proposal: **08-Oct-20** Link: https://www.grants.gov/web/grants/search-grants.html
Department of BioTechnology (DBT) Information for CfP2R Applicants – platform technologies to rapidly respond to Disease X Last date for submission of project proposal: **14-Oct-20** Link: https://cepi.net/getinvolved/cfps/ (or) Link: http://dbtindia.gov.in/sites/default/files/31.12-CEPI%20Platform%20Call_0.pdf
Department of Science and Technology (DST) Invitation of proposals for PURSE scheme Last date for submission of project proposal: **15-Oct-20** https://dst.gov.in/sites/default/files/PURSE.pdf (or) Link: https://dst.gov.in/callforproposals/invitation-proposals-purse-scheme
Department of Science and Technology (DST) BIOMEDICAL DEVICE AND TECHNOLOGY DEVELOPMENT PROGRAMME Last date for submission of project proposal: **15-Oct-20** Link: https://dst.gov.in/sites/default/files/BDTD%20FORMAT.pdf
Department of Science and Technology (DST) SCIENCE TECHNOLOGY AND INNOVATION (STI) HUBS FOR DEVELOPMENT OF SCHEDULED CASTE (SC) AND SCHEDULED TRIBE (ST) COMMUNITIES – CALL FOR PROPOSALS 2020 Last date for submission of project proposal: **15-Oct-20** Link: https://dst.gov.in/sites/default/files/Call%20for%20Proposals-Science%20Technology%20%26%20Innovation%20Hubs.pdf

Department of Health and Human Services National Institutes of Health BRAIN Initiative: Pilot resources for brain cell type-specific access and manipulation across vertebrate species (U01 Clinical Trial Not Allowed) Last date for submission of project proposal: **19-Oct-20** Link: https://www.grants.gov/web/grants/search-grants.html
Department of Health and Human Services Centers for Disease Control and Prevention – ERA Epidemiologic Cohort Study of Interstitial Cystitis Last date for submission of project proposal: **19-Oct-20** Link: https://www.grants.gov/web/grants/search-grants.html
Department of Science and Technology (DST) DEVICE DEVELOPMENT PROGRAMME under TECHNOLOGY DEVELOPMENT PROGRAMME Last date for submission of project proposal: **30-Oct-20** Link: https://dst.gov.in/sites/default/files/DDP%20Format-2020_0.pdf
Department of BioTechnology (DBT) DBT-BMBF, Germany joint call on 'Phytotherapies' in Health Research 2020 Last date for submission of project proposal: **31-Oct-20** Link: http://dbtindia.gov.in/sites/default/files/DBT-%20BMBF%20Call%20Text.pdf
Department of Science and Technology (DST) National Innovation Challenge Awards for Designing and Developing Energy Storage Devices for Rural Household/ Enterprise Applications Last date for submission of project proposal: **31-Oct-20**Link: https://dst.gov.in/sites/default/files/National%20Awards%20Call%20Doc%20and%20Format%20%281%29.pdf
Department of Science and Technology (DST) Austria / India Scientific & Technological Cooperation (WTZ programme) Call for Applications for Joint projects in 2020-2022 Last date for submission of project proposal: **31-Oct-20** Link: http://dst.gov.in/sites/default/files/Joint%20Call-Austria-For%20DST%20Website.pdf
Department of Science and Technology (DST) ASEAN-India Collaborative R&D Scheme Last date for submission of project proposal: **31-Oct-20** Link: https://aistic.gov.in/ASEAN/aistdfCollaborative
Department of BioTechnology (DBT) Call for Concept Proposal in the area of Developmental Disorders and Diseases of Infancy and Early Childhood (Next TEC cut-off is 15/01/2020) Last date for submission of project proposal: **31-Oct-20** Link: http://dbtindia.gov.in/whats-new/call-for-proposals/call-concept-proposal-area-developmental-disorders-and-diseases-infancy
Department of BioTechnology (DBT) Ramalingaswami Re-entry Fellowship-2020-21 – DBT -RLS fellowship -2020 Last date for submission of project proposal: **31-Oct-20** Link: http://dbtindia.gov.in/latest-announcement/advertisement-ramalingaswami-re-entry-fellowship-2020-21

Inspiring Life Stories

'A man hath no greater enemy than himself'.

A tortoise asked two geese to take him south with them. At first they resisted; they didn't see how it could be done. Finally, the tortoise suggested that the two geese hold a stick in their beaks and that he would hold on to it with his mouth.

So off the unlikely threesome went, flying south over the countryside. It was quite a sight. People looked up and expressed great admiration at this demonstration of creative teamwork.

Someone said, "It's wonderful! Who was so clever to discover such a fine way to travel?" Whereupon the tortoise opened his mouth and said, "It was I," as he plummeted to the earth.

This story is an eye opener for the ones who at the end of any team work strives hard to emphasize on their contributions. They might make small gains instantaneously but may not gain the capacity to be a good leader altogether.

Moral: There is no "I" in 'team'.

Content Source: http://www.allfolktales.com/

Picture Source: https://en.wikipedia.org/wiki/The_Tortoise_and_the_Birds

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From the desk of Ramki -– Aspire to Inspire

Murugan, the proprietor of a coffee shop, had been busy all day. Being Saturday, his shop was very crowded and the customers seemed unending. He had been on his toes since morning. Towards the evening he felt a splitting headache surfacing.

As the clock ticked away, his headache worsened. Unable to bear it, he stepped out of the shop leaving his staff to look after the sales. He walked across the street to the Pharmacy to buy himself a painkiller to relieve his headache.

He swallowed the pill and felt relieved. He knew that in a few minutes he would feel better.

As he strolled out of the shop, he casually asked the salesgirl, "Where is Mr. Gopalan, the Chemist? He's not at the cash counter today!"

The girl replied, "Sir, Mr. Gopalan had a splitting headache and said he was going across to your coffee shop. He said a cup of hot coffee would relieve him of his headache."

The man's mouth went dry and he mumbled, "Oh! I see."

This is a typical case of looking outside ourselves for something that we have within us.

How strange, but true!

The Chemist relieves his headache by drinking coffee and the coffee shop owner finds relief in a pain relieving pill! Similarly, many of us travel across the lengths and breadths of the universe and also visit several places to find peace.

Eventually, we come to realize that real peace is within our own hearts.

PEACE is really a state of mind

#WishingMostAndMore
Have a great wonderful day & great week
R. Ramakrishnan

Editorial Team:

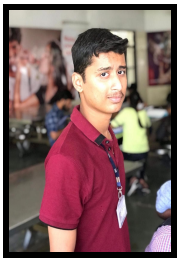

Dr. N. Nallusamy


Dr. M. S. Alphin


Dr. G. Satheesh Kumar


Mr. Achyuth Ramachandran


Mr. Shashank Kannan Bharadwaj


Mr. R. Swamenathan


Mr. M. Vignesh

HoD/Mech: *nallusamyn@ssn.edu.in*

Send your feedback to: *aspire@mech.ssn.edu.in*

Send all your submissions to: *editorssnmech@gmail.com*