The Nobel Prize in Physics 2016
"for theoretical discoveries of topological phase transitions and topological phases of matter"

David Thouless
F. Duncan M. Haldane
J. Michael Kosterlitz

The Nobel Prize in Chemistry 2016
"for the design and synthesis of molecular machines"

Jean Pierre Sauvage
Sir J. Fraser Stoddart
Bernard L. Feringa
The Nobel Prize in Physiology or Medicine 2016
"for his discoveries of mechanisms for autophagy"

Yoshinori Ohsumi

The Nobel Prize in Literature 2016
"for having created new poetic expressions within the great American song tradition"

Bob Dylan

The Nobel Peace Prize 2016
"for his resolute efforts to bring the country's more than 50-year-long civil war to an end"

Juan Manuel Santos

The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2016
"for their contributions to contract theory"

Oliver Hart

Bengt Holmstrom
NPTEL- National Program for Technology Enabled Learning- is a body of e-learning content. This year, IIT Madras introduced a scheme to popularise the courses among students. As part of the exercise, Dr.Chitra Babu, HoD- CSE and Dr.Sethuraman, Librarian spearheaded the activities at SSN for student participation for these courses. Based on our students’ registration and performance in the course evaluations, SSNCE has been recognized with a rating of AAA. More details at 
http://nptel.ac.in/LocalChapter/college_homepage.php?collegeid=111

**Conference on Reliability and Safety Engineering**

Department of Mathematics, SSN along with Society for Reliability and Safety (SRESA), BARC, Mumbai, organized 3rd National Conference on Reliability & Safety Engineering (NCRS-2016) during December 01-03, 2016. Dr.S.Narasimman was one of the Convenors of the Conference. D.R.Sujatha and Dr.R.Sundareswaran offered Secretarial Support for the conference.

Selected papers will be published in SRESA Journal of Life Cycle Reliability and Safety Engineering. This journal is published by Springer.

**Doctorate Scholars' Day**

SSN Doctorate Scholars Day was conducted on Dec first. All Full time Scholars made presentations (Oral / poster) highlighting their work. Best presentations were awarded by President and Principal.
Visveshwar of Final Year Mech writes...

I am happy to share with you that I have received the award "Bala Kala Rathna" from BKS trust at Bharatiya Vidhya Bhavan.

Also, I have been upgraded to "B - High" grade from All India Radio.

This Margazhi music season has been eventful for me as I performed 10 concerts at different Sabhas including Karthik fine arts, Indian fine arts, Bramma gana sabha, Bharath kalachar, Parthasarathy swami sabha, Papanasam sivan sangeetha sabha.

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Extract from AIR letter

Dr. M.Selvaraj, Associate Professor, delivered invited talk on 'Friction and dynamics of rigid body at Jeppiar SRR Engineering College for a Faculty Training program of Anna University. [19-12-2016]
Dr. K.S. Vijay Sekar, Associate Professor, delivered three lectures (one day session) in the Anna University sponsored Faculty Development and Training Programme on “Finite Element Method”, held in the Department of Aeronautical Engineering, Jeppiaar Engineering College on 24th Nov 2016.

Professor SRKoteswara Rao was invited to deliver a lecture on NDT at Tagore Engg College on 1st Dec 2016, as part of their 2 day FDP on NDT (Non Destructive Testing).

Dr. Satheesh Kumar Gopal, Associate Professor has delivered an invited talk in the FDTTP programme on “Engineering Mechanics” organized by Jeppiaar SRR Engineering College on 20.12.2016
Dr. Rajkumar.K, Associate professor, reviewed the article titled "A Comparative Analysis on Tensile strength of Dry and Moisture Absorbed Woven Kenaf/Glass Hybrid Polymer Composites with and without reinforcing fly-ash particles" for the International journal of industrial textiles.

Dr. A.K. Lakshminarayanan, reviewed 10 research papers for Materials and Manufacturing Process, Taylor and Francis.

Dr. K. Subbaiah, Professor, reviewed a research paper for Springerlink International Journal of Minerals, Metallurgy and Materials.

Dr. N. Lakshmi Narasimhan, Associate Professor, Reviewed a Research Paper for the Int. J. Refrigeration (Elsevier).

Dr. M. S. Alphin, Associate Professor, Convened Confirmation DC meeting for Mr. B. Rajesh kumar (PhD Scholar/Part-time). Dr N. Arunachalam, IIT M was present for the meeting. [18-12-2016].

Dr. M. Nalla Mohamed, Associate Professor and his PhD Scholar (Mr. A. Praveen kumar) presented 3 papers titled
"Crush performance analysis of combined geometry tubes under axial compressive loading"
"New insight to improve energy absorption characteristics of long circular tubes with stiffeners as controllable energy-dissipating devices" and
"Numerical and experimental study of the effect of orientation and stacking sequence on petalling of composite cylindrical tubes under axial compression" in the 11th International Symposium on Plasticity and Impact Mechanics(Implast 2016) organized by Indian Institute of Technology-Delhi on 11-14th Dec 2016 [14-12-2016].

Dr. K. Jayakumar, Associate Professor and his PhD student (Mr. A. Madhan Kumar) presented a paper with the title of "Drilling studies on Particle Board composite" in the International Conference on Material Sciences (SCICON '16) organized by Amrita University, Coimbatore (December 19 to 21, 2016). [20-12-2016].

Dr. B. Anand Ronald, Assoc. Prof., Presented paper in the 6th International & 27th All India Manufacturing Technology, Design and Research Conference, (AIMTDR), College of Engineering, Pune. [16 to 18-12-2016]
Papers published / accepted


Dr.D.Ananthapadmanaban, Associate Professor-Paper titled Corrosion Studies in Friction welded Aluminium to Copper with Nickel Interlayer-Accepted for publication in Transylvanian Reviews Journal

Program Attended

Dr.R.Prakash, ASP/Mech., Dr.S.Vijayan, ASP/Mech., and Mr.B.Jayakishan AP/Mech., attended an one day conference with the theme "Exploring Advances in Automotive Electronics" on 09.12.2016 at Hotel ITC Grand Chola, Chennai conducted by Tamil Nadu Technology Development & Promotion Center of CII.

Three projects have been submitted by Mech Faculty in December.

Dr.D.Ananthapadmanaban, Associate Professor submitted a Project proposal on "Solid state welding of dissimilar metals and effect of cryogenic treatment on mechanical properties" to DST-SERB under EMRC Scheme. Fund Requested Rs.15 lakhs, over a period of three years.[23-12-2016]

Dr. M. Dhananchezian, Associate Professor, submitted a Project proposal on “The effects of sustainable hybrid cryogenic cooling on machinability, surface integrity and product performance in turning of Waspaloy 300 and Haynes 230 alloys.” under the Scheme: Extra Mural Research Funding (Individual Centric). Total Cost (in Rs.): 14, 71,000 [26-12-2016]

Prof.N.Nallusamy (PI) and Mr. Jayakishan (Co-PI) submitted a proposal titled "Composition Effects of Oxidised Paint Waste Oil on Combustion and Emission Characteristics in a Reactivity Controlled Compression Ignition Engine" to DST-SERB under EMR scheme. Amount requested is Rs. 23,86,250/-
STUDENT ACTIVITIES:

Murugesh of Final Year Attended the NSS program of SSN [2-12-2016]

Murali T S of Second Year did an Internship at Wheels India limited [20-12-2016]

Diwakar S of Third Year is undergoing an internship at IIT Madras [since 4-12-2016]

Narmadha of Third Year attended an Inplant training at Chennai Vehicle Assembly and Engine Plant, Ford [starting 5-12-2016]

PA Shankar of Final Year participated in a GIAN course on mechanics of fracture [19-12-2016]

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Faculty Write up

**Dr. B. Anand Ronald**, presented a paper (poster) titled "*On the comparison of Properties of Magnetic Moulded Al/ SiC$_p$ Metal Matrix Composites with other Fabrication Methods*" in the 6th International & 27th All India Manufacturing Technology, Design and Research Conference, (AIMTDR 2016), held at *College of Engineering, Pune* from **16 - 18 Dec. 2016**.

The co-authors were: **C. Arun Prakash (Research Scholar), M. Suba Karthik (JRF)**.

This paper was based on the Department of Science and Technology (DST) project under Start-up Research Grant (Young Scientists) – No. SB/ FTP / ETA – 67/2013. The participants of the conference were from the length and breadth of the country in the broader domain of manufacturing.
Professor V.E. Annamalai’s book on Metallurgy has been released by Universities Press (Taylor &Francis)

Foreword by Dr.A.Manil, IITM

In this book, the author has taken proactive initiative, useful for the students in learning and understanding the subject fundamentals, apart from covering the syllabus from the university examination point of view, in the area of Material Science and Metallurgy. To cite one example from this book, the author has explained the step by step development method for sketching Iron-carbon equilibrium diagram. In my opinion, this approach may give the students a feel and the experimental data build up behind the particular theory. Also, to make this topic interesting, he has attempted to introduce a new method of explanation, and also included the memory aids- mnemonics for the easy remembering for the examination.

This book is written to cater to the requirement of Anna university syllabus by covering Material Science to Metallurgy, by including iron-carbon diagrams, alloys of iron, heat treatment of iron, material testing, alloys of copper and aluminum, ceramics, polymers, etc. This book is user-friendly for the university students, containing university question papers and short question and answer section, which helps the students to prepare for the university examinations, placement preparation, GATE examination, etc. Finally, I would like to appreciate and congratulate the author for introducing a student-friendly and useful book for the society which may widen the technical knowledge in materials and metallurgy.
Shahsank Yogesh, of Final Year mech writes.

I had recently learnt that TamilNadu has now got the World’s largest solar power plant and is to be fully functional from next year.

I found this article to be delightfully surprising and students can be motivated to learn about the engineering behind this massive project. I hope it can be featured in next month’s Aspire.

The country is on schedule to be the world’s third biggest solar market next year.
The facility in Kamuthi, Tamil Nadu, has a capacity of 648 MW and covers an area of 10 sq km. This makes it the largest solar power plant at a single location, taking the title from the Topaz Solar Farm in California, which has a capacity of 550 MW. The solar plant, built in an impressive eight months and funded by the Adani Group, is cleaned every day by a robotic system, charged by its own solar panels. At full capacity, it is estimated to produce enough electricity to power about 150,000 homes.

The project is comprised of 2.5 million individual solar modules, and cost $679m to build. The new plant has helped nudge India’s total installed solar capacity across the 10 GW mark, according to a statement by research firm Bridge to India, joining only a handful of countries that can make this claim. As solar power increases, India is expected to become the world's third-biggest solar market from next year onwards, after China and the US.

Despite the fast-growing solar power industry, India will still need to increase its take-up of solar panels if it is to achieve the ambitious targets set by the government. By 2022, India aims to power 60 million homes by the sun. It is part of the government's goal to produce 40 percent of its power from non-fossil fuels by 2030.

This aim has been praised by environmental groups and is hoped will also help reduce the country’s problem with air quality. At the beginning of this month, the pollution level in the capital New Delhi reached its worst levels in 17 years.

I am glad to inform you that I have presented a paper on queueing theory at VIT University, Chennai on the 16 and 17th of this month (December). It is a work that has several applications in the field of communication systems and networks.

I did this research along with Prof Dr. S. Sophia, Department of Mathematics, SSN. I now look forward to solving some problems in the field of production processes. It is due to be accepted by International Journal of Pure and Applied Mathematics for which I am currently writing the paper.

Yours respectfully,
Murali T.S.
II year, Mech A

Thanks to Dr. Sophia for such a good support

Dr. Sophia
Report on Industrial training at Chennai Vehicle Assembly and Engine Plant, Ford India

Narmadha, Third Year Mech B

I attended the industrial training at Chennai Vehicle Assembly and Engine plant, Ford India from 05 to 09-12-16. I am much obliged to Prof Lakshminarasimhan N, SSNCE and Er. Manoj Kumar, Ford. Around 40 participants from different institutions all over the country attended the training.

Ford manufactures and exports vehicles including the Ford EcoSport and all-new Ford Endeavour and engines made at its integrated manufacturing facilities in Chennai, Tamil Nadu and Sanand, Gujarat.

The first session was on "Stamping and Blanking" following which we were taken to the Stamping and Blanking units. The second day was an unexpected holiday due to sudden demise of CM of TN. On the third day, we were taken to "Trimming Chassis and Final" unit where the body of the car and mechanicals are married together. On day four, we were taken to the "Quality Control" unit, followed by "Paint shop" Orientation. The final day we had a visit to "Engine Assembly" unit followed by "Body shop" Orientation.

- The process of turning out the automobile from raw materials and components at Maraimalai Nagar starts with Tisco supplied steel rolls fed into Esmech blanking facility. Blanks are cut out for the Endeavour and EcoSport.

- There are three press lines - the Schuler, the Komatsu and the Napres which are fully automated 2500 tonne pres lines with ability to execute 15 strokes per minute.

- A white light scanner scans components to check tolerances.

- Adjoining the press shop is the body shop. Here the stamped panels are welded together to make the body-in-white. A total of about 90 robots execute welding, hemming and sealing operations. The body-in-white is transferred by conveyors to the paint shop.

- The paint shop incorporates Three-Wet High-Solids painting system which ensures better gloss and reliability and 16 of the painting robots which ensures complete automation. The painting robots apply paint coats successively- four for primer coat, eight for base coat and four for clear coat. The body runs through the oven only once to save costs.

- Painted bodies are transported to the final assembly line referred to as TCF where the body and mechanicals are married and the trim fitted. Consisting of a door line, kitting line, PU sealant line, end-of-testing line, shower test and engine fitment, the TCF has been extended for flexible assembly capability, taking advantage of centralized bulk material feeding, in-sequence feeding of key supplier components and the delivery of engines via overhead conveyors.

- The plant has a 3.2 km test circuit to verify quality before vehicles are shipped, a squeak-and-rattle testing track for finished vehicles, a dynamic water-wading test-bed and a four-post hydro-lifter for wheel alignment and extreme road condition simulation testing. The engine shop houses a fully integrated, high volume engine manufacturing facility. The Chennai plant manufactures 500 cars per day.

- The workers and staff members at Ford taught us indirectly about the importance of discipline, safety and punctuality.
During the Doctoral Scholars' Day function, Mr.A.Praveen Kumar, scholar working under the guidance of Dr.M.Nalla Mohamed, was awarded for the category of “Best Oral Presentation”.

He has done significant progress in his research work, which was appreciated by the Reviewing panel members.

The SSN Doctorate Scholars day was conducted on 1st Dec. 2016. Dr. P.Ramasamy, Dean (Research) welcomed the gathering and presented the report on research work carried out during the academic year 2015-16.

Full time research scholars from various departments presented their research works. 94 presentations from college and 8 presentations from mechanical department.

Dr. V.E Annamalai, Prof. & Head and Dr. K.Subbaiah, Prof. evaluated the oral and poster presentations of mechanical department.

Mr. Praveen Kumar, A, JRF/Research Scholar was awarded cash prize of Rs.2000 for best oral presentation.
The French Minister for the Environment, Energy and Sea, Ségolène Royal, has today (Dec 22nd, 2016) officially launched a kilometer long solar road project in Normandy. Nearly 3,000 Wattway panels running through a small village in north-west France are expected to produce an average of 767 kWh of electricity per day, peaking in summer months to as much as 1,500 kWh. Some 2,880 photovoltaic panels have been installed between the south exit of Route RD5 at Tourouvre to where it meets the N12 at le Gué-à-Pont for the Wattway trial. Each panel has been designed to withstand the punishment of regular road traffic and can be linked to electrical equipment and networks.

The installation is expected to produce somewhere in the region of 280 MWh of electricity each year, and an information display alongside the solar road powered by the PV array will provide locals with electricity production updates, as well as a running total figure. The electricity produced will be fed into the network operated by Enedis.

Colas is now able to combine its expertise in roads with that of photovoltaic technology, paving the way to Wattway, the world’s first photovoltaic road surface.

As the energy transition becomes reality, imagine a road able to harvest solar energy and produce energy locally.

The world’s 1st ever photovoltaic road surface
Wattway is a patented French innovation that is the fruit of 5 years of research undertaken by Colas, world leader in transport infrastructure, and the INES (French National Institute for Solar Energy). By combining road construction and photovoltaic techniques, Wattway pavement provides clean, renewable energy in the form of electricity, while allowing for all types of traffic.

A new vision for roads
Wattway produces electrical energy without overtaking farmland or natural landscapes, and contributes to increasing the share of photovoltaic electricity in the energy mix, both in France and worldwide.

ENERGY PERFORMANCE
Pavement is only occupied by vehicles some 10% of the time. Imagine the solar resources of this surface area, facing the sky. 20 m² of Wattway panels provides enough electricity to power a single home. (Source ADEME/CEREN 2014 – average French household for 1,000 sun hours/year – not including heating).
Vehicle tyres are essentially made of three materials: latex, fabric and steel fibres. The only thing that could not be reused up to now was the fabric, which ended up in landfills or incinerators. After several tests, the key to obtaining the new material was the combination of three components: fibres, recycled paper pulp and white glue. The new material has proven to be very effective in the construction sector and for railway projects because it is a good insulator.

According to Lluís Gil, "this new material is technically equivalent to the rock wool and glass wool materials previously used for thermal and acoustic insulation of buildings, but it is cheaper". Xavier Cañavate says "our material can reuse millions of tons of fibres that were previously sent to landfills at the end of the tyres' life, thus saving energy and CO2 emissions. It also incorporates recycled paper pulp, which is very difficult to reuse". The new material was created thanks to the participation of the companies COMSA and GMN and funding of €130,000 from the INNPACTO programme of the Spanish Ministry of Economy and Competitiveness. In addition, the project has generated eight bachelor's theses and a master's thesis.
A chance discovery in a physics lab at Rice University has turned up an ultra-hard material that could usurp the titanium commonly used in today’s knee and hip replacements. Scientists have found that by melting gold into the titanium mix they can produce a non-toxic metal that is four times harder than titanium itself, raising the prospect of more durable, longer lasting medical implants.

Emilia Morosan, a professor of physics at Rice University, was carrying out experiments on a magnetic material made from nonmagnetic elements, more specifically, a titanium-gold mix with a one-to-one ratio. Part of her team’s process in developing new compounds like this one is to grind it up into powder so that it can be X-rayed, which helps them identify things like its composition, structure and purity.

"When we tried to grind up titanium-gold, we couldn't," she says. "I even bought a diamond-coated mortar and pestle, and we still couldn't grind it up."

It proved a tough nut to crack, but Morosan and her team carried out a series of tests to work out how hard this compound really was, along with a few other titanium-gold compounds that had been used as comparisons in their earlier work. Part of this mix was one alloy containing three parts titanium to one part gold, which had been formed at high temperature.

Preparation of the compound at high temperatures, as it turns out, creates an almost purely crystalline form of the beta version of the alloy, with four times the hardness of titanium.

The researchers point out that the compound is actually not a new one, nor is it difficult to make, but they are the first to come across its impressive properties.

"[Beta titanium-3 gold] is about three to four times harder than most steels," says Morosan. "It's four times harder than pure titanium, which is what's currently being used in most dental implants and replacement joints."

The researchers say that material could lend itself particularly well to use in medical implants, as it is made of titanium and gold, which are up there with the more biocompatible materials and are commonly used for that reason. But testing showed their titanium-3-gold to be even more biocompatible and wear-resistant than pure titanium. The team is exploring whether treating it with chemicals can make it even harder again.

Evaptainers combine time tested evaporative cooling techniques with modern design and production to create a lightweight, efficient cooling system that can be used in a wide variety of applications. The diagram to the right shows the Evaptainer’s basic construction.

Evaporative cooling is something you have experienced: when you get out of the water after swimming, a wind blows and suddenly you feel a bit chilled; that is evaporative cooling in action.

So how do you use evaporative cooling to make an evaporative cooler?

Evaptainers solve a huge problem in the food production infrastructure of developing markets by intersecting modern design, materials, and production with time tested evaporative cooling technology creating an effective, scalable, electricity free, mobile refrigeration solution. Evaptainers harness the power of evaporative cooling to keep food fresh.

Electricity free mobile refrigeration technology to keep food fresher, longer using only sun and water

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Uber Beacon, a device that goes on a driver’s windshield and uses color-pairing technology to help drivers and riders more quickly connect at night, particularly at crowded venues. With this technology, riders can personalize their pickup by selecting from an endless number of colors for the Beacon to glow on their driver’s vehicle. And it’s instantly recognizable with the same design as the rider app icon.

Last year in Seattle, we pioneered this concept through our SPOT pilot, and found it reduced the need for riders and drivers to contact one another and lowered cancellation rates in historically tricky pickup locations. Based on this feedback, we’ve been exploring additional ways to use our color-pairing technology in hardware to improve both the rider and driver experience.

reproduced from - [uber innovation](https://newsroom.uber.com/beacon/)
Waste Ventures India is a waste management social enterprise that is moving India’s solid waste sector to models that are simultaneously environmentally and financially sustainable. They offer professional waste collection and processing services to households, corporate clients and waste pickers. Since late 2013, they have averted over 3,000 tons of waste from Indian dumpsites.

They offer Hyderabad’s first digital doorstep recyclable pickup service.

Features:

**Single Point:** Organic waste, Low value recyclables, one-stop recycling shop

**Technology Driven:** Scheduled pick-up, Unrivaled Professionalism, Instant payment

**Green Guarantee:** All recyclables sent to certified recyclers or upcyclers

**Fair Labor:** Equitable Pay, No child labor.

The Impact:

3,000+ Tons of waste averted, 1,900+ Tons of CO2 averted, 20,000+ Households Served

1,000+ Waste pickers reached

Households Services:

They offer Hyderabad’s first digital recyclable pickup platform for Households and Small & Medium Enterprises. They also provide a customized recycling services larger housing societies.

**Seamless pickup:** Scheduled, hassle-free, convenient, doorstep pick up.

**Earn money:** Earn more money by recycling more types of recyclables. Digital weighing, transparent pricing, and on-the-spot payment.

**Go green:** Network of PCB certified recyclers to ensure all your waste finds a green end point.

**Responsiveness:** Any issues, we’re just a call away.

Sanjeevini Compost

Sanjeevini Premium Organic Compost is a 100% organic compost that contains nutrients that outperforms nutrient values for typical organic and vermicomposts on the market. Highest quality compost in Telangana, lab tested. This nutrient-packed Sanjeevini Compost also retails on Amazon.

For career options, apply online at [http://wastevventures.com/careers.html](http://wastevventures.com/careers.html)
Forthcoming Events

Jan 2017

1. The Department of Robotics and Automation, PSG College of Technology is organizing a One Day Workshop on "Interaction of social robot with Humans" on 21.01.2017. Course fee Rs.600. Contact Ms. K. Vidya, K 309, Centre for Industrial Automation, Department of Robotics and Automation Engg. e.mail: cia@psgtech.ac.in, Ph: 8973509825.

2. Workshop on Bio Diesel
Brooklynn Innovative Research and Development (BIRD) is organizing a workshop on "BIO DIESEL PROCESSING AND QUALITY CONTROL" at CLRI (Central Leather Research Institute) Chennai. The workshop is been scheduled on 24th and 25th of January 2017 at CLRI Campus. Scientist from CLRI is going to be handling the sessions and participants will be provided with a Central Government Certificate at the end of the session. It would be well beneficial to the students, faculties and Research scholars and a good platform to gain knowledge on Bio diesel. Registration link: http://training.birdindia.co.in/registration/?course=Bio%20Diesel%20Processing%20and%20Quality%20Control

Feb 2017

3. Department of Mechanical Engineering of S.V. National Institute of Technology (SVNIT) Surat is going to conduct a TEQIP-II sponsored one week short term training program on "Advanced Engineering Optimization Through Intelligent Techniques" during 06-10 February 2017. The last date to apply for the training program is 03/02/2017. For more details, visit: www.svnit.ac.in

March 2017

1. International Conference on Nanomaterials and Nanotechnology (ICNANO-2017), 1-3 March 2017, Vinoba Bhave Research Institute (VBRI), Allahabad-221508, Uttar Pradesh

2. The Department of Mechanical Engineering of SVCE, Sriperumbudur, is organizing a National Conference on EVOLUTION OF GREEN AND MATERIALS PROCESSING TECHNOLOGY (NCEGMPT2K17) during 02 & 03 March 2017. This conference aims to explore the recent developments of green energy in transport, industry, power sectors and materials processing technology. Last date for paper submission Jan 8. For details contact ncegmpt2k17@svce.ac.in.


The Department of Automobile Engineering jointly with School of Agricultural Sciences, Kalasalingam University, Krishnankoil, Tamil Nadu, India, with technical partners Universiti Putra, Malaysia and Aerospace Manufacturing Research Centre, Malaysia is organizing an “International Conference on Automotive Systems, Agricultural Equipments and Manufacturing” on 24th and 25th March, 2017 at Kalasalingam University, Krishnankoil, Tamil Nadu, India.

The conference announcement, paper submission details, registration details and online transfer details are available at conference website www.icaam-klu.in
Last date for paper submission Jan 31st.

Department of Mechanical Engineering and Department of Science and Humanities of Sri Sai Ram Institute of Technology, Chennai, are jointly organizing an International conference, titled "International Conference on Advances in Materials, Manufacturing and Applied Sciences (ICAMMAS-17), 30th - 31st March 2017 at Sri Sai Ram Institute of Technology, Chennai, India. Conference website http://www.icammas17.com/ submission of full paper Jan 5.

April 2017

International Conference on Mechanical and Manufacturing Engineering (ICMME-2017) organized by Department of Mechanical Engineering, SCSVMV University on 6th & 7th April 2017. Submission of full paper by Jan 31st.

First International Conference on Renewable and Sustainable Energy has been scheduled at Hindusthan College of Engineering and Technology, Coimbatore, India on 12th and 13th of April 2017. Submission of abstracts 10 Jan.

June 2017

International Conference on Recent Advances in Materials, Mechanical and Civil Engineering (ICRAMMCE-2017), 1-2nd June 2017 at Marri Laxman Reddy Institute of Technology and Management, Hyderabad. Abstract due by Dec 10th. Fee Rs.10,000 for faculty, Rs. 8,000 for Scholars. Publication in Applied Mechanics and Materials. For more details please visit the conference website http://icrammce.com/.

12th International Forum on Knowledge Asset Dynamics, St. Petersburg, Russia, is conducting an International conference on the theme Knowledge Management in the 21st Century:Resilience, Creativity and Co-Creation, during 7-9 June 2017, at the Graduate School of Management, St Petersburg University. 15 January 2017 - Abstracts Submission Deadline

January 2018

Second International Conference on Science and Engineering of Materials (ICSEM-2018), 6-8 January 2018, School of Engineering and Technology, Sharda University, Noida-201306, Uttar Pradesh. Last date for Abstract Submission : 8th Sept. 2017
சின்னத்திரை, பரிவேற்றின் அரிதம் கல்விப்பெளிப்பிட்டுறையில் அவிளயம்:

சுற்றுலா ப்பட பலகை பாதுகாப்பு நூற்றாண்டு மழையில் தொடர்ந்து 50,2 நூற்றாண்டு பயனர் நூற்றாண்டு (Post Graduate) பயனர் மதி முதல் பௌத்த நூற்றாண்டு சார்ந்து பெருமையான வழங்கி வழங்கியது. உள்ளே செயலும் அனிதாச்செய்திக்கு பப்படாங்கியது கால அளக்கு படபாடர்கள் அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு 

என்என்று முதல் செயலும் அர்ப்பனிகள், திக்கு விளக்கின் நூற்றாண்டு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு 

என்என்று முதல் செயலும் அர்ப்பனிகள், திக்கு விளக்கின் நூற்றாண்டு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு 

திசை முதல் செயலும் அர்ப்பனிகள், திக்கு விளக்கின் நூற்றாண்டு அனிதாச்செய்திக்கு அனிதாச்செய்திக்கு 

செயல் -5

செயலாட்டுச் சானூலிகள் பொருளாதார டைக் டைக் டைக் டைக் டைக் டைக்
Faculty Development Programme on Entrepreneurship Development is organised by
ACS College of Engineering # 207, Kambipura, Mysuru Road, Bengaluru-560074
Karnataka, India.

International Seminar on Present Scenario & Future Prospectives of Research in Engineering and Sciences, (ISPSFPRES-17)
Date: January 21, 2017, at Integral University, Lucknow.
Paper submission by using E-mail: ispsfpres17@gmail.com

Women Scientist Scheme, is a flagship programme of Department of Science & Technology (DST) under KIRAN (Knowledge Involvement in Research Advancement through Nurturing). Through one of its components- ‘Women Scientist Scheme-C (WOS-C)’- it provides employment opportunity to women scientists having break in their career through management of Intellectual Property Rights.

Patent Facilitating Centre (PFC) of Technology Information, Forecasting and Assessment Council (TIFAC) has been entrusted with implementation of WOS-C. It encompasses training of women, having qualifications in science/engineering/medicine or allied areas, in the field of Intellectual Property Rights (IPRs) and their management, for a period of one year and eventually develops a pool of women geared to create, protect and manage intellectual property in India. These trained women can start their own venture after clearing patent agent exam or may work in law firms, scientific organizations, etc.

Eligibility
1. Women in permanent position are not eligible to apply
2. Age: Minimum 27 years; Maximum 45 years as on 01-01-2017
3. Minimum essential qualification: Master of Science; Bachelors in Engineering/Technology or equivalent

Stipend
1. M.Sc., in Basic or Applied Sciences/B.Tech or equivalent degree: Rs.20,000 p/m
2. M.Phil/M.Tech/M.Pharm or equivalent degree: Rs.25,000 p/m
3. Ph.D. in Basic or Applied Sciences or equivalent degree: Rs.30,000 p/m

Last date for submission of application: 9th January 2017

Online application: http://115.112.95.114/wosc/online/Control.do?_main=488t3s
### Alumni Info

**Sadesh M of 2010-14 batch writes..**

Dear Sir,

I am happy to inform you that I am currently working with Mando Automotive India as Procurement Engineer. Previously associated with Lucas TVS as Purchase Engineer for 2 years. MANDO AUTOMOTIVE INDIA LIMITED is an Information Technology and Services company located in Kanchipuram. It has been a great pleasure to see Aspire every month.

Regards,
Sadesh

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**Message from Sankar Raju (to Dr.N.LakshmiNarasimhan)**

Dear Sir,

Hope you are doing great. First of all, I wish to thank you for your continuous dedication, support and encouragement that you had endeavored through my important phase of my life.

I have been appointed as a **Contracted Research Student at Fraunhofer Research Centre-ITWM (FCC)**. This appointment comprises of my first year Research project, Second year Masters Thesis and my career ahead as a Applied Researcher at Fraunhofer-Gesellschaft (Fraunhofer Society).

This achievement wouldn't have been possible without your continuous effort to develop me in the field of CFD and Fluid Dynamics as a whole. I'm proud that I'm your student.

Also, I was happy to know that, through the Letter of Intent (LoI) signed between Europe's largest Applied Research Organisation-Fraunhofer and IITM, **some part of my research work will be implemented in India through IITM in the development in the field of Automotive**.

At this point, I could not forget the efforts put by Dr.Somasundaram to learn opensource CFD software. Every student is made notable only when he/she is molded by a passionate teacher. And this is certainly what you had been.

Speaking about the course at Chalmers. I would certainly encourage any research motivated, talented and passionate student in the field of Fluid Dynamics to choose the masters course in Applied Mechanics at CTH without any second thought as this has been chosen by the top industries (like Volvo, Vattenfall, GKN Aerospace, etc) and top research organisations as one among the top 5 fluid courses being delivered across the world. And certainly based on its description, the course is meant only for the adroit ones.

I remember, the most important key move made by you at the last minute to help me choose my varsity by the factor of credible Research work and Scholarship and not by disguised rankings. And certainly, this has been proved true.

The tough times have passed away sir. It's time to give some valid contributions to the society.

Awaiting for your call.

Sankar Raju
Alumni Tracking

Subrahmanya Siddaarth T of 2012-16 batch, is now Acquisition Marketer at Freshdesk

Sagar Malhotra of 2012-16 batch is now Business Development Executive at Freshdesk

Santhosh Manikandan of 2012-16 batch is now Application Development Analyst at Accenture

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Adithya Vignesh J, of 2012-16 batch, is now Grader at Purdue University

Anandam Mallik, of 2012-16 batch, is now GET at Toshiba Machine Pvt. Ltd

Akhilnandh Ramesh of 2012-16 batch is now Graduate Engineer Trainee, Brakes India Private Limited

Anandam Mallik, of 2012-16 batch, is now GET at Toshiba Machine Pvt. Ltd

Abinav Sunder, of 2012-16 batch, is now Graduate Student at University of Michigan-Ann Arbor

Akhilnandh Ramesh of 2012-16 batch is now Graduate Engineer Trainee, Brakes India Private Limited

Anandam Mallik, of 2012-16 batch, is now GET at Toshiba Machine Pvt. Ltd

Vinayagavel S, of 2012-16 batch, is now Student at Indian Institute of Management, Indore

Adithya Vignesh J, of 2012-16 batch, is now Grader at Purdue University

Anish Pasumurthy, of 2012-16 batch, is now Associate Mechanical Engineer at The Dow Chemical International Pvt. Ltd.

Ajai Thangaswami.M, of 2012-16 batch, is now Graduate Student at Purdue University.

Kirthivasan Arul, of 2012-16 batch, is now Executive trainee at Ashok Leyland MDC

Akhilnandh Ramesh of 2012-16 batch is now Graduate Engineer Trainee, Brakes India Private Limited

Anish Pasumurthy, of 2012-16 batch, is now Associate Mechanical Engineer at The Dow Chemical International Pvt. Ltd.

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All India Council for Technical Education (AICTE) invites online applications from AICTE approved Institutes/Universities/Departments for financial assistance under the schemes of Quality Improvement during financial year 2016-17. An advertisement to this effect has been published in the leading National Newspapers on 25.12.2016.

For detailed information about the schemes, eligibility criteria, requirements, terms and conditions, please refer to AICTE website at http://www.aicte-india.org> Bureaus / RIFD / schemes > AQIS guidelines & Process Handbook. The last date for submission of application for the above schemes is 10.01.2017.

You are requested to submit proposals under various schemes online well before the closing date i.e. 10th January, 2017.
Saving the Ailing Trees

Head of Construction and Facilities, Mr. Ganesh Prasad and team have done a wonderful job of saving as many trees as possible, by trimming the branches, reorienting the trunks, packing the soil for roots to reinforce and propping the trunks till the roots anchor again. Kudos to their team-VeA.

Prop in position to hold the tree vertically, till such time the roots take over again.

Soil loosened, root put back in position and packed well for re-anchoring of roots.

Broken branches trimmed off and trunk alone reoriented in position.
The unclean pig later spoke to its friends in arrogance, "*See how big I am; even the elephant was afraid of me and moved to one side to let me pass.*"

On hearing this, some elephants questioned their friend, the reason for its action. *Was it out of fear?*

The elephant smiled and replied, "*I could have easily crushed the pig under my leg, but I was clean and the pig was very unclean. By crushing it, my leg will become dirty and I wanted to avoid it. Hence, I moved aside.*"

*Moral of the story: Realized souls will avoid contact with *negativity* not out of fear, but out of desire to keep away from impurity though they are strong enough to destroy the impurity. You need not react to every opinion, every comment, or every situation.*
Jealousy

By being jealous, you are telling your subconscious, “I have a lack”. By being jealous, you are telling your subconscious, “I am less”.

On the other hand, by being inspired, you are telling your subconscious, “what is mine will remain mine, and I don’t have to feel insecure about it. What won’t be mine will never be mine, and don’t have to feel insecure about it. I don’t have to be desperate about it. More importantly what one human can achieve is proof enough that every human can achieve it, and I too can achieve it.

Jealousy is just a sense of perceived lack but because “like begets like” your subconscious will, in reality, create that lack in your life and make you less.

Instead, get inspired and let your subconscious draw “more” of everything into your life.

• When someone has something that you don’t have or is able to produce results that you are not able to produce, and you are unable to accept that, the resultant emotion is jealousy.

• When someone has something that you don’t have or is able to produce results that you are not able to produce and you are able to accept that- the resultant emotion is inspiration.

• Accept others when they do things that you can’t do, and get inspired!

Wishing you most & more
Have a wonderful day & great weekend
Ramakrishnan