External Recognition

Dr. S. Vijayan visits Singapore and Dr. R. Prakash visits USA for conference presentations

Thanks to the financial support of our Management, Dr. R. Prakash, presented a paper titled “Ventilation Improvement in a Non-AC Bus” in SAE 2013 Commercial Vehicle Engineering Congress, held during 1 – 3 October 2013 at Rosemont, Illinois, USA. He had the opportunity of meeting several company technical heads and university professors in the conference. This was part of the research work done with final year students at Ashok Leyland, Chennai.

I sincerely thank SSN Management for sponsoring me to present a research review article entitled “The Role of Friction Stir Welding Process Parameter on Mechanical properties of Magnesium Alloy AZ31B” in International Conference on Advances and Trends in Engineering Materials and their Applications (ATEMA 2013) held during October 11-12, 2013, at Singapore.

The conference was jointly organised by Hong Kong educational society and Trans Tech publication Inc. Researchers from China, Malaysia, Japan and India participated in the conferences.

Advanced Material Research (AMR) one of listed journal in Anna University has accepted to publish the review article. The interactions with the eminent researchers from various countries were very useful and it provides a platform to continue research on Materials and Manufacturing.
The highlights of the design conference are listed below
1. The students have received a cash prize of Rs 10,000
2. The company has awarded our institution with “innovative champion winner of the smart car design challenge”
3. The students can apply for their internship and placement to the company
4. The core committee has recommended their work to an international students contest which is proposed to be conducted on February 14, 2014 at France

Frontal Head Collision Control of occupants using innovative car cabin system – Design Report

ABSTRACT

Ensuring safety of passengers during vehicle crash is one of the important challenges for a vehicle designer. Though many accidents are due to various factors that are extraneous to vehicle, it becomes essential to assure the safety of the passengers. The present work mainly suggests a flexible car cabin system which prevents the head collision with interior compartment using sliding mechanism controlled by pneumatic system. The proposed novel design improves the crash deceleration pulse and the distance between the occupants and dashboard. The translation and rotation of the occupant can also be reduced by increasing the seat plane inclination.

SSN mech races ahead of Stalwarts in Automobile engg...

SAE Super Car design contest has announced the scores. It is heartening to see that our students have been able to score way ahead of established stalwarts in Automobile engg like IIT Delhi, PSG, BITS Pilani, Mepco Schlenk and MIT Guindy.

Kudos to the SAE team and to Dr.N.LakshmiNarasimhan and Dr.R.Prakash who keep the students continuously enthused.

Our students are now building their concept car. The expected budget is around Rs.10 lakhs. We are currently approaching various corporates for funding support. If anyone has any access to funding points let us know. Check the full results at...

Government of India has identified "Combustion" as the thrust area of research and taken initiatives to promote in a large scale, research in the area of Combustion. To take this forward, IISC and IITM have initiated an Outreach program, with the intention to admit students to direct Ph.D., and M.S. in the area of Combustion. Students of Third Year can also apply this year and get the advance admission for direct Ph.D. at IITs subject to getting a valid GATE score during their final year.

As part of this outreach program, two Sr. Prof.s from IIT Madras headed by Prof. Balaji visited our campus on Oct 8, 2013. They addressed the students of third and Final year Mech /Chem enlightening Research Opportunities in the area of Combustion at IITs and IISC. This is obviously a recognition for the capabilities of our students.

Out of the three short films that won in the SRM Envision Short film contest, two were from SSN(During ‘Combusted 2k13‘ Ramapuram campus mechanical symposium).

2nd prize was won by ‘Ball poche‘, which was written and directed by Madan Lal of 3rd year mechanical. Watch this comedy at http://www.youtube.com/watch?v=nRUhcBc1M7Q

3rd prize was won by ‘C6: From Coal to Diamond‘ - written and directed by Gowthaman.T of 3rd year mech. Chennakesavan of 3rd year mech edited the film and Adityan took care of cinematography. Watch this sensation at http://www.youtube.com/watch?v=-8jZLvgq2QA

The first program which will be offered by SSN SACE is a Post Graduate Certificate Program in Business Analytics. This six-month residential program has been designed in consultation with professionals from renowned industries like IBM, Accenture, HCL, TCS, etc. This program will cover descriptive and predictive analytics. The participants will get hands-on experience with IBM tools. This program is scheduled to be launched by Mr Nadar on 3rd Jan., 2014.

SSN SACE will seamlessly work with the other schools of SSN Institutions to identify and offer potential industry relevant programs. I look forward to your whole-hearted support for making this initiative a grand success.
The Theatrics Club of SSN "Lights Out Please" Participated in the Theatrical event at "FESTEMBER", the annual cultural fest of NIT Trichy and won the First Prize. They Were awarded with a cash prize of Rs.10,000.

Abhishel Dutta of 2nd year chemical was judged as the best actor. Adithyan Karunakaran and Adithya .V of mech were part of this team.

A survey taken by Arjhu, Bruno, Sai Nath and myself, of companies that had come for placements this past semester revealed that communication skill is a prime expectation. With this in mind, Gokul Ram, Mubarak and the rest of us from final year decided to hold workshops on communication specifically aimed at, but not restricted to, students who had Tamil as the medium in school.

Different members of the ELC will be taking over for subsequent workshops that we plan to have atleast once a month from here on, with Group Discussion and Mock Interviews on the agenda for the immediate future. Any suggestions or requests from the faculty or from the guys and girls of our department are most welcome. We'd also love it if you could join us for the next workshop in January.
Mr. L. Poovazhagan, Assistant Professor joined us on 30th September 2013. He has completed his B.E in Mechanical Engineering from Coimbatore institute of Technology (CIT) and M.E in Manufacturing Engineering from Annamalai University.

Now, he is pursuing Ph.D (Part Time) in the area of Aluminum Metal Matrix Nanocomposite Materials at Anna University, Chennai.

He has over 13 years of teaching experience. Prior to joining us he was an Assistant Professor in Sri Venkateswara College of Engineering.

He has 3 papers in International Journals, 2 paper presentation in International Conferences and 2 in National Conferences

His Areas of Interest include: Composite Materials, Mechanics of Machines and Fluid Mechanics

He is a trained Internal Auditor for ISO auditing.

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The Annual Puja Celebrations in full swing at Workshop.. on 11 october, 2013. Catch a glimpse of staff fully engrossed-as they do in any work they get involved...

Two more patents filed..

Patents for two new devices as below have been filed on October 30, 2013.

i) Multipurpose hand-held cooling cum cleaning device (student inventors: Subash, Gokul, Keshika and Praveen) and

ii) Airconditioner cum auxiliary cooler with evaporative condenser (student inventors: Sai Shreenaath, Vishnu Swami, Jigar Golecha and Bruno Augustin)

Mr. K. Subbiah submitted Thesis on Oct 18, 2013.

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Mr. R. Prakash completed his viva voce on Oct 25 and has been recommended for the award of Ph.D.

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Mr. M. Selvaraj's paper titled "Thermal model for friction stir welding of mild steel", has been published in Multidiscipline Modeling in Materials and Structures, Vol. 9, No. 1, pp.49 – 61, 2013.

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Dr. N. Rajalakshmi
Senior Scientist, Centre for Fuel Cell Technology,
Dr. G. Giridhar,
Solar Radiation Resource Assessment, Centre for Wind Energy Technology

Dr. K. Elangovan and Dr. A. K. Lakshminarayanan conducted a one day workshop on Response Surface Optimisation- Oct 22, 2013

Workshops conducted

Effective Solar Energy Conversion
Solar & Biofuel options
Energy Security – Problems & Solutions

Guest Speakers

Dr. N. Rajalakshmi
Senior Scientist, Centre for Fuel Cell Technology,
Dr. G. Giridhar,
Solar Radiation Resource Assessment, Centre for Wind Energy Technology

Topics Covered

Advances in Fuel Cell Technology
Efficient Solar Energy Conversion
Solar & Biofuel options
Energy Security – Problems & Solutions

Project Efforts

Dr. S. Vijayan, submitted
1. a research proposal to Tamilnadu State council for Science and Technology (TNSCST) on Friction Stir Welding (Rs. 4 lakhs).
2. He also submitted a Travel Grant request to CSIR

Dr. N. Nallusamy & Dr. S. Rajkumar submitted a project proposal on Reduction of exhaust emissions in multi-cylinder automotive diesel engines using biodiesel fuels derived from non-edible vegetable oils to Ministry of Forest and Environment, requesting a funding of Rs. 35.18 L

Dr. M. S. Alphin has submitted 1. FDP (Faculty development Program) proposal on "Computer Aided Product Design". To AICTE, requesting a funding of Rs. 6.10 Lacs
2. Also applied to FDP scheme under Anna University for Rs. 80,000 for conducting FDP on Finite Element Analysis

Dr. V. E. Annamalai has submitted the following proposals:

1. Development of eco-friendly coolants for grinding to Ministry of Forest and Environment, requesting a funding of Rs. 49.55 L

2. "Reducing the wastage of grinding wheel due to dressing" to Tamilnadu State council for Science and Technology (TNSCST) for Rs. 4 Lakhs.
III semester Mechanical Engineering (Sec-A) students V.R.Balaji and K.V.J.Arun presented a paper and won the second prize in FARSCA’13 Symposium held at Anna University Chennai, University College of Engineering, Pattukkottai on 04.10.13.


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<thead>
<tr>
<th>Rank</th>
<th>Name</th>
<th>Role</th>
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<tbody>
<tr>
<td>3</td>
<td>Satyanarayana Rao, V</td>
<td>Student</td>
</tr>
<tr>
<td>10</td>
<td>Sarah Ann Ramji</td>
<td>Student</td>
</tr>
<tr>
<td>17</td>
<td>Sharan Srinivasan</td>
<td>Student</td>
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<td>18</td>
<td>Seshadri</td>
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<td>21</td>
<td>Karthik.M.</td>
<td>Student</td>
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<td>25</td>
<td>Dheeraj, P</td>
<td>Student</td>
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<td>27</td>
<td>Naveen. I</td>
<td>Student</td>
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<td>36</td>
<td>Venkatesh Adithya ,S</td>
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<td>46</td>
<td>Manojkumar</td>
<td>Student</td>
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<td>47</td>
<td>Vignesh. GA</td>
<td>Student</td>
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</tbody>
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Incidentally, it was Satyanarayana Rao, who was chosen as the Best Outgoing student of SSNCE last year.

I thank the Management for granting me a scholarship in "special sports category". These are my achievements in sports till now:

- Winner of District-Level Youth Cultural and Sport Festival held at district stadium, Virudhunagar, 2010.
- Participated in Collosium Sports Meet, as representative of Kalasalingam University, 2009.
- Winner of District-Level Republic Day and Bharathiar Day Games and Sport Meet held at KRP HSS, Namakkal, 2007-2008.
- Represented my school (VVMHSS) for State Selection held in ooty, 2007.

Dr. Vijay Sekar KS participated in a 2 day workshop titled "Fail safe design, Early detection and Avoiding future recurrence of failures" organized by jointly by Dept. of Mechanical Engineering, Anna University and Society for failure analysis Chennai on 28,29 Oct 2013.

Dr. N. Lakshmi Narasimhan
Dept Coordinator

Congrats to all those who made us proud. 10 University ranks out of 60 students is a good feat!

Sarah is now doing her M.S. at University of Toronto Institute for Aerospace Studies

Sharan Srinivasan is Now a Student at Stanford University

Venkatesh Adithya Shreedharan is a Graduate Student at Delft University of Technology, The Hague Area, Netherlands
News on Internship

Girish underwent Internship at ISRO last year. He alerts us on possible internships this year. Last Date Nov 30

Last Date Nov 30, 2013

Forthcoming events

Dr.K.S.Jayakumar, Dr.K.Rajkumar and Mr.K.L.Hankrishna are organising a Two weeks Faculty Development Programme (FDP) on Mechatronics at SSN College of Engineering during 02.12.2013 to 15.12.2013. This is sponsored by AICTE

Innovation Challenge

Deadline: 2013-12-11
Award: Top Prize is an around the world ticket worth 10.000€

This competition calls on students from all over the world, to submit their visionary ideas and concepts for new Henkel products and technologies. Under the slogan "Create, learn, grow", student teams of two are invited to submit their innovative and sustainable ideas with a special focus on countries in emerging markets such as: Thailand, the Philippines, Vietnam, and Indonesia.

Innovative and sustainable product or technology concepts should be aimed for one of the three Henkel business sectors: Beauty Care, Laundry & Home Care or Adhesive Technologies.

Students of all fields of studies are eligible, who are at least 18 years old, enrolled in a university, college, or equivalent academia. All teams that qualify for the semi-final are assigned an experienced manager from Henkel, who acts as a mentor, advising the participants on further developing their innovative concepts.

Prizes:
- The 1st winning team at the international final is awarded with a ticket around the world worth 10.000€!
- The 2nd winning team is awarded with a travel voucher worth 4.000€.
- The 3rd winning team is awarded with a travel voucher worth 2.000€.

http://www.henkelchallenge.com/
Loyal Textiles—our new Recruiter

Mr. S. Saravanan, AGM (HR), Mr. M. Ramakrishnan, VP (HR) and Mr. R. Shanmugham, Consultant, Qualitree

Loyal Textiles was established in 1872, by Sir. E. D. Sasson, as a Spinning and weaving mill with second hand machines imported from England. The Visionary Karumuttu Thiagaraja Chettiar bought this mill in 1953.

Even though the company is more than 100 years old, none of the machines are more than five years old! Their punchline is “Moving ahead of Times in adopting Technology. Staying with time tested Values.”

For over six decades, Loyal Group provides a wide range of products and services to textile and apparel Markets, besides fulfilling its commitments towards socio-environmental development. An ISO 9002 2000 accredited, the Group exports products to EU, US, UK, Mexico, Taiwan, Vietnam, Iran, Israel, China, Indonesia, Far-East and South African Countries.

Committed to philanthropy and socio-environmental development, Loyal Group is a multi-faceted organization, providing an array of products and services for textile and apparel industries. In more than its seven decades of establishment, the Group has created several benchmarks and established milestones for the forthcoming generations.

Loyal Group comprises of three composite mills, one spinning mill, one dye house, four garment manufacturing units, one trading cum retailing company and a Joint Venture trading company in Italy. Besides, the Group has in its fold the 162 year-old watch trading company “P Orr & Sons”, which has 9 operational stores in Tamil Nadu and Pondicherry (India).


Our Sincere Thanks to Loyal Textiles who offered the first Placement for our M.E.Manufacturing team.
Vishnu Speaks.. Continued..

21.04.13 விஷ்ணு சொல்லியின் பிரச்சித்துறைகள் பரிமாற்றிய கல்லூரியில் பதியப்பட்டுள்ள ஒரு பதிலிபியில் விஷ்ணு சொல்லியின் பிரச்சித்துறைகள் பரிமாற்றியாகள் பதியப்பட்டுள்ள ஒரு பதிலிபியில் விஷ்ணு சொல்லியின் பிரச்சித்துறைகள் பரிமாற்றியாகள் பதியப்பட்டுள்ள ஒரு பதிலிபியில் விஷ்ணு சொல்லியின் பிரச்சித்துறைகள் பரிமாற்றியாகள் பதியப்பட்டுள்ள ஒரு பதிலிபியில் விஷ்ணு சொல்லியின் பிரச்சித்துறைகள் பரிமாற்றியாகள் பதியப்பட்டுள்ள ஒரு பதிலிபியில் விஷ்ணு சொல்லியின் பிரச்சித்துறைகள் பரிமாற்றியாகள் பதியப்பட்டுள்ள ஒரு பதிலிபியில் விஷ்ணு சொல்லியின் பிரச்சித்துறைk
கோட்டை ஓர் குறுகிய பருள்பாதை விளைவாக பள்ளியாளராக மடுக்க வேண்டும். மேலும் மூலம் குழந்தைகள் கருதுகோள் போக்குவர்த்தியாளராக மடுக்க வேண்டும். இந்தக் காரணமாக பற்கள் அடையலான பயிர் விளைவுகளை முழுமையாக நடத்திவிக்க வேண்டும். இந்தக் காரணமாக பற்கள் அடையலான பயிர் விளைவுகளை முழுமையாக நடத்திவிக்க வேண்டும்.

அதுவரை விளைவு, Sting operation! புனர் நிறத்தில் அதிகாரிகளுக்கு எடுக்கப்பட்டது தக்கவலை வழி பற்களினங்கள் பருள்பாதையில் வருகையிட்டு, அவை விளையாட்டு முறையில் அதிகாரிகளுக்கு வந்துருக்கள் என்றுக் கூறியுள்ளார். கடந்துள்ள பயிரின் விளைவுகளை நோக்கி வரும் போது இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார். உடனே இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார்.

அனைவரும் புனர் நிறத்தில் அதிகாரிகளுக்கு வந்துருக்களும் வருகையிடத் தருகிறார்கள். இதற்காக அதிகாரிகள் என்று கூறியுள்ளார். அதிகாரிகள் என்று கூறியுள்ளார். இதற்காக அதிகாரிகள் என்று கூறியுள்ளார். இதற்காக அதிகாரிகள் என்று கூறியுள்ளார்.

குற்றங்களின் மாதிரியாக இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார். குற்றங்களின் மாதிரியாக இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார். குற்றங்களின் மாதிரியாக இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார்.

ஆக குற்றங்களின் மாதிரியாக இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார். வரும் குற்றங்களின் மாதிரியாக இவ்வகை குற்றங்கள் தொடர்ந்து வங்காளப்படத்து விளைவுகளை மேலும் இருந்து அதிகாரிகளுக்கு வந்துருக்கள் என்று கூறியுள்ளார்.

Compiled and released by HoD Mech feedback to annamalaive@ssn.edu.in