

**ACTIVITIES OF
SAEINDIA COLLEGIATE CLUB
FOR THE YEAR 2005-06**



**B S A Crescent Engineering College,
Vandalur, Chennai -48.**

- a) **Total Number of SAEINDIA Student members(New + Renewals)**
50 Renewals + 50 new members
- b) **Total Number of SAEINDIA Faculty Members in the Institution supporting Club Activities.**
No of faculties – 4
- c) **Programs Organized by SAEINDIA Collegiate Club all by itself under its own banner.**

Office bearers Nomination

The election for the office bearers of SAE student section was conducted on 14 July 2005 and the following members were nominated as

S.No	Name of the student	Year	Designation
1	Fareeth. H	IV	Chairperson
2	Shaaz Mohamed. P	III	Vice Chairperson
3	Hafiz Shiraz. A	II	Secretary
4	Mohamed.Razeen. M	IV	Treasurer
5	Vinod. K	IV	Program Chair
6	Vimal Kumar. M	III	Reception Chair
7	Senthil Selvan. N	III	Publicity Chair
8	Premkumar. S	II	Membership Chair

Inauguration

The Society started its activities with its inauguration on 28th July 2005 by Mr. C. S. Vijayaraghavan, President, Buhari Holdings Pvt. Ltd., Chennai in our college Convention Centre. The Chairperson Mr. Fareeth.H IV Year Mechanical Engineering presented the annual report of the society activities for the year 2004- 2005.



Inaugural Function of the activities on 28th July 2005



Chief Guest Mr.CS Vijayarahavan delivering the guest lecture

CONFLUENCE 2005(Sept 02, 2005) organized by Department of Mechanical Engineering focused on *Intelligent Materials & Manufacturing*. There were 5 sessions held. The details about the sessions are as follows:



Confluence – 2005



Paper Presentation in Confluence – 2005

Session I (Materials)

Intelligent materials & sensors
Nano Technology
Micro Electrical Mechanical Systems
Surface Engineering

Session II (Manufacturing)

Flexible Manufacturing Systems
Intelligent Manufacturing Systems
Rapid Prototyping
Molecular Manufacturing

Session III (Mechanisms)

Bio Mechanics
Human Factors Engineering
Robotics
Bio-MEMS

Session IV

Modelling Contest Using
Pro/E**

Session V

Quiz & Dumb-c programs were conducted

For the first three sessions 40 papers arrived and in which the selected number of papers for the sessions were as follows:

Session I - 6 Papers

Session II - 6 Papers

Session III - 5 Papers

Design Contest

A Modeling contest using Pro/E** was conducted and 50 students from various engineering colleges like SVCE, Hindustan College of Engineering, registered for participation in the modeling contest. A preliminary test was conducted and 15 were short listed for the final contest. The students were asked to do parametric modeling of the Petrol engine piston using Pro-E. The judging was based on the completion of the model and special attention was given for imparting the parametric constraints. Mr. Suresh Kesavan of SVCE, Sriperumbudur bagged First Prize for his design. Mr. J. V. Sivaprasad, Technical Manager, India Pistons Ltd, Mr. Maraimalai was the chief guest for the Modeling contest.



Pro/E modelling contest Mr. Rajendran Faculty advisor and Mr.J V Siva Prasad judging the models



Mr. J V Siva Prasad receiving memento from the Head of The Department

National Energy Conservation Day

SAE and ASME jointly organized “Rajiv Gandhi Renewable Energy Day” Celebrations in association with Ministry of Non Conventional Energy Sources, New Delhi and Tamil Nadu Energy Development Agency, Chennai on 19 Aug 2005. The function was inaugurated by Prof. S. Modi, Professor Emeritus, Crescent Engineering College, Chennai. He emphasized on the need to conserve energy in this sector.

Topic

Energy efficiency &
Energy conservation in
Transport sector

Energy Efficient Buildings
Solar Architecture

OTEC Systems
& Tidel Energy

Speaker

Mr. N. Bakthavachalam
Sr. Dy. Manager, (Research)
IRT, Chennai

Dr. Monsingh David Devados
Professor, School of Architecture
& Planning, Anna University.

Mr. Raju Abraham
Scientist, National Institute
of Ocean Technology
Pallikaranai, Chennai.

Wind Energy

Prof. V. Geethaguru
Mechanical Engineering
BSA Crescent Engineering College.

As a part of the event, Quiz contest was conducted for the students.

SISCAR DERBY 2005 - Design Contest (Sept 29 & 30, 2005)

The SAE (Society of Automotive Engineers) Collegiate Club of Crescent Engineering College organized **SISCAR DERBY 2005**, third in the series of car design contest, on Sept 29 & 30, 2005. The meet is organized to nurture creativity among the engineering college students in the design of efficient new car models.

The Soap Box Derby is a concept in designing an engine-less gravity powered wheeled car having a rudimentary steering and brake, which can seat one designated operator. The Soap Box Derby event makes these cars free-roll from a sloping track, specially designed and made to travel a distance of 25 meters by gravity. Different parameters of the vehicle like rigidity of the vehicle, steering control, braking efficiency are taken into considerations including stopping distance. All components of the vehicle must be of indigenous in origin with no import content. The main factors for a soapbox car design are ultra-light, rigid structure, low drag-coefficient, less friction.

Building and racing these "machines" under strict criteria poses a tremendous technical challenge for students with no limit for creativity and deployment of cost effective high-technology. About 45 teams from 18 engineering colleges from all over Tamil Nadu participated in this event. The teams made technical presentations followed by the roll down test. Eminent panel of judges evaluated the winners based on different criteria -engineering ingenuity, creativity, quality of build, finish, aesthetic design, material usage, and gross vehicle weight, performance in roll down, braking efficiency, team coordination and management. The panel judges include leading Industrialists and academicians

1. Mr. K. Sethu Baskaran, Manager- Body Launch, FORD INDIA Ltd.
2. Dr. S. Parthasarathy, Eminent Automobile Professor
3. Mr. V. Anbazhagan, Technical Consultant

The event was co sponsored by India pistons and India piston Rings

Dr. V. Balasubramaniam, GM (R&D), UCAL Fuel Systems Ltd. distributed the prizes to the winning teams.

d) **SAEINDIA Student Member participation in Programs organized in other Institutions and For programs organized by CCs in association with other Societies like SME,IEEE**

SN O	NAME	COLLEGE ORGANISED	EVENT	PLACE
1.	Mr. B. Sivaramakrishnan, Mr. N. Saikumar	IISc, Bangalore	International Conference TEAM TECH 2006,	I Best paper Award
2.	Santosh	IIT(Mechanica 06)	Design contest	II
3.	V.srinath A.vivek	IIT (Mechanica 06)	e-modelling	II
4.	A.Mohammed Iqbal P.Akshay	IIT(Mechanica 06)	e-modelling	III
5.	A.Vivek	Sai Ram Engg colg	Paper presentation	Participant
6.	A.Hafiz Shiraz	IIT(Mechanica 06)	Mech Modelling	II
7.	M.Venkata Sri Raghuram	IIT(Mechanica 06)	Paper presentation	Participant
8.	R.Rajesh	ST.Peters colg	Paper presentation	Participant
9.	M.C. Pagutharivu	Hindustan colg	Quiz	Consolation
10.	A. Arun kumar	Crescent Eng colg	Essay On Entrepreneurship Developement	I
11	AR. Mohammed Idris	Crescent Eng colg	Essay On Entrepreneurship Developement	I

S.No	Name	Paper Title	Conference
1.	A AROCKIA JULIAS	Cam sleeve design for piston ring manufacturing using FEA	22 nd International Conference on CAD/CAM, Robotics & Factories of the future, 19-22 July 2006 Vellore Institute of technology,. Vellore
2.	A.ARUN PREMNATH	Fatigue and thermal analysis on Plasma coated steel piston ring	International Seminar on Fatigue & Fracture June 26 & 27 2006, IISc Bangalore
3.	T.P.GOPALAKRISHNAN	Analysis of brake hose sleeve and generation of parametric model for brake hose assembly	National Conference on Recent Trends in Manufacturing & Thermal Engg ,NCRTMT 2006 April 11 2006 Thanthai Perivar Govt Institute

			Of Tech, Vellore
4.	K.KEERTHY	Simulation study of contra rotating rotor system of wind turbine.	National Conference on Recent Trends in Manufacturing & Thermal Engg ,NCRTMT 2006 April 11 2006 Thanthai Periyar Govt Institute Of Tech, Vellore
5.	G.MOHAN	Non linear Analysis of Carburetor diaphragm	CADAM 06 Contemporary approaches in design & manufacturing Apr 21, 2006 Alagappa Chettiar College of Engg & Tech, Karaikudi
6.	M.PRABAKARAN	Design improvement and analysis of carburetor diaphragm	Advances in Manf & resource analysis PSNA Dindugal
7.	R.RADHABALAJI	Modelling and moldflow analysis of piston die used in aluminium permanent die casting technique	Advances in Manf & resource analysis PSNA Dindugal
8.	RAVISHANKAR. G	Analysis of automatic injection timing in diesel fuel injection pump	CADAM 06 Contemporary approaches in design & manufacturing Apr 21, 2006 Alagappa Chettiar College of Engg & Tech, Karaikudi
9.	T.SATHISH SUBRAYAN	Zero-gravity slosh analysis of spacecraft propellant tank	National Conference on Recent Trends in Manufacturing & Thermal Engg ,NCRTMT 2006 April 11 2006 Thanthai Periyar Govt Institute Of Tech, Vellore
10.	M.VELUMANI	Aerodynamic optimisation of express bus body using "CFD"	CADAM 06 Contemporary approaches in design & manufacturing Apr 21, 2006 Alagappa Chettiar College of Engg & Tech, Karaikudi
11.	J.VENGADESAN	. Design & vibration analysis of fuel filter assembly in automobiles	International Conference TEAM TECH 2006, Feb 28-March 2 2006 IISc Bangalore
12.	M.BALAMURALI	Crash analysis of Bus Body using LS-DYNA	RAPMATS JAN 6&7 2006 MIT Anna University Chennai
13.	K.V.DIVAKAR	Improving yield of raw material For ring winding machine	OPTEST 2006 Optimisation Technique In Engg Science & Technology APRIL 11&12 2006.

			BIT Coimbatore.
14.	J.E.GOPALAN	Simplification of Brake testing operation	National Conference on Recent Trends in Manufacturing & Thermal Engg ,NCRTMT 2006 April 11 2006 Thanthai Periyar Govt Institute Of Tech, Vellore
15.	R.MUTHUKUMAR	Modeling and Solidification Analysis of Engine Block Mould.	National Conference on Recent Trends in Manufacturing & Thermal Engg ,NCRTMT 2006 April 11 2006 Thanthai Periyar Govt Institute Of Tech, Vellore
16.	Y.PRABU	Analysis Of Springback In Brake pedal Support	National Conference on Recent Trends in Manufacturing & Thermal Engg ,NCRTMT 2006 April 11 2006 Thanthai Periyar Govt Institute Of Tech, Vellore

SISCAR DERBY 2005 participants from BSA Crescent Engg College

1.	ASHWIN P.V	III MECH
	ARUL AZHAKAN M.	
	CHIRAG K. JAIN	
	CHANDRA MOULI	
2.	S.R. MURUGAN	III MECH
	M. PRABU	
	SHARAFATH P.S	
3.	M. VIMAL KUMAR	III MECH
	R. SIDDARTHA	
	T.K. USMAN	
	G. GIRISH KUMAR	
4.	ASHRAF ANSAR PASHA	III MECH
	D. VIJAY MACMILTON	
	R. ARUN KUMAR	
	N. ARAVIND	
5.	TARIQ IBRAHIM	III MECH
	ASHWIN BABU	
	JAFFER ALI	
	IBRAHIM QURRAM	
6.	H. FAREETH	IV MECH
	S. ASWIN	
	M. ZUBAIR RAHMAN	
	M. MOHAMED RAZEEN	
7.	S.ARUL KUMARAN	II MECH
	V.LEO ANTONY THOMAS	
	J.SAMIYUDEEN	
	A.MANAAZ	
8.	ANIRUDH PARTHASARATHY.G	II MECH
	VARUN PADMANABHAN	
	D.VIJAY	
	YASSER ARAFAT	
9.	J.NAZURUDEEN	III MECH
	WASI ABBAS	
	MOHAMMED THOHID	
	MOHAMMED IMMAMUDDIN	
10.	S. MANSOOR AHMED	II MECH
	B. MOHAMMED SHAFI	
	P. HARIHARAN	
	A. MANOJ KUMAR	

e) Student Participation in SAEINDIA and or SAEINDIA Section activities

Workshops / Conferences / Meetings attended

Technical lectures organized by the SAEINDIA southern section

“Application of Laser Technology in the Mobility Domain” delivered by Mr. S. Naresh Iyer, Manager, RANE (Madras).

A guest lecture on Plastics product design by Mr. S.Rajendran Manager L&T e-Engg solutions Chennai was arranged on behalf of SAE Southern India section.

A guest lecture on Value Engg in Automobile Industries by Mr..Appala Raju Director, Gurunanak Inst of Management Science.

Ms. Kaleem Nasreen AP/Mech **Mr. R.Rajendran**, SL/Mech attended one-day program on ‘Radiation Awareness’ at BHAVANI, IGCAR, Kalpakkam on 2, Feb 2006.

Mr. R.Rajendran, Faculty Advisor has attended a two day National Workshop on Faculty Advisors Orientation Programme held on 6, 7 February 2006 at IIT Madras, and presented the activities of Crescent – SAE Collegiate Club.

Mr. R.Rajendran, Faculty Advisor has been selected to participate and present his paper in the **Travelling Fellowship Programme of the FISITA 2006** World Automotive Congress Yokohama.from 16 October to 26 October.

Mr. R.Rajendran, Faculty Advisor has been nominated as Member and Vice Chair for Design and Competitions in SAE INDIA Southern Section Managing Committee for the year 2006 – 2008 and also nominated as Member in Student Engineering Education Board.

f) SAEINDIA Foundation Scholarship awarded winners

H.Fareeth Final Year has been awarded SAE student scholarship for the year 2004-2005

g) Facilities created in the Institution for the use of Student Members by the club

SAE Magazines Library