



MCKVIE TIMES

MCKV INSTITUTE OF ENGINEERING

Volume 3, Number 1, January 2008

From the PRINCIPAL'S desk:

At the outset, I heartily wish all the members of the MCKVIE family a very happy and prosperous New Year 2008. The MCKVIE TIMES is an important publication as it keeps all concerned informed about the latest developments of the Institute. It not only outlines plans and programmes to be undertaken in the Institute but also indicates students' activities and news.

This issue is also replete with a lot of good news regarding quality improvement & development of infrastructural facility. Results for last Even Semester examinations have been published and I would like to congratulate my students for their laudable performance. From this semester, we have started a Book Bank facility for the 1st year students and there has also been a commendable increase in the number of books in the college library.

Preparations for this year's **Technotica** had started much earlier and the final event has also taken place. I am glad to see that my students participated in it wholeheartedly. It gives me added pleasure that like all previous years our students got the first prize this year also at the **Eastern India Science and Engineering Fair** organised by **BITM** at Kolkata. Our students are thus being increasingly appreciated in technical projects / exhibitions being organized by renowned institutions. Winning the first prize by our students at the **Techniche 2007** at IIT Guwahati bears additional testimony to this.

As part of the infrastructural development of the Institute, construction of the new academic building is progressing as per schedule.

The 2006-07 edition of the college magazine **ISOCELES** has been published and has been greatly appreciated by students and faculty alike. I heartily congratulate the editorial board for their earnest endeavour. The 2007-08 issue is also going to be published shortly.

I thank the editorial board of the newsletter **MCKVIE TIMES** for their enthusiasm and dedication. I would also like to thank those who are concerned with the development and welfare of our Institute.

A S Ray

INSIDE

- Editorial
- New Faculty
- Students' Activities
- Faculty Activities



We thank all the Corporate for their constant support in our growth



DEPARTMENT OF AUTOMOBILE ENGINEERING

Post globalization of business activities revealed that the growth prospects for the automotive sector in India are very encouraging today. The Indian automotive industry has flourished like never before in the recent years. Almost all the world-renowned automobile companies entered the Indian Manufacturing Space. The effect of extraordinary growth is also seen in Eastern India where many automobile companies plan to establish their manufacturing plant. This market trend was anticipated by the MCKVIE management and subsequently planned to offer B.Tech. course in Automobile Engineering in the year 2003. The first batch of students passed out in June 2007. The second batch will pass out in June 2008.

To match the latest automobile manufacturing process in engine assembly, engine testing, foundry practice, transmission development, the automobile engineering department developed relevant and required laboratories and workshops like Engine component lab., Engine testing lab., Chassis Component lab., CAD lab. using useful software like CATIA, AUTOCAD, etc.

Again, care and upkeep of ongoing vehicle plays a very vital role for successful operation of individual and fleet of vehicle both in Urban and Rural areas. Considering all these the department developed Vehicle Maintenance laboratory to solve the trouble shooting problems.

Unlike early days, the modern vehicle is designed to run at very high speed which demands taking proper care of wheel unbalancing, alignment of wheels, etc. The department developed Auto Scanning laboratory for identification and correction of such fault with the help of online computer.

Among other factors, automobile exhaust contributes in a large way to air pollution resulting global warming and injury to health. To identify such problems of automobile engine, the department has created Exhaust Gas Testing facility in the laboratory.

Our students are provided with all these practical trainings along with necessary theoretical input to equip them to combat the future challenges.

The above mentioned institutional efforts have already yielded positive effect. Our students are getting offer from the reputed industry like M/S Mahindra & Mahindra, M/S Eicher Motors Ltd., M/S Tractors India Ltd., M/S Hindustan Motors Ltd., M/S Avtek Ltd., Many more offer are expected shortly. Our students are also aspiring for higher studies and are getting opportunity in the premier institutes like IITs, etc.

All the above factors prove that our decision to introduce Automobile Engineering as a discipline at the degree level was right.

P Banerjee

If you are ten minutes early, you are five minutes late

Committee Members:

1. Chief Editor :
Dr A. S. Mallik
2. Editors :
 - a) Ms Lina Saha
 - b) Mr Firoze Basu
 - c) Mr Sekhar Choudhury
3. Joint-Editor :
Suhel Mukherjee



Editors' Desk

WHAT PRICE ENGINEERING ?

Is it good to be an engineer ? Given the fact that engineers are put under constant scanner for so many technological disasters the world over and for creating what is called risky technologies, the critical role of engineers and engineering is severely questioned. To our mind the question should be examined in its political perspective.

Technologies are developed to be ultimately used in our society. But who ultimately controls technology? Who controls the choice of projects and for what purposes? Who really dictates terms in an engineer's career? Who should answer the questions? The technical professionals are not able to do so. Finding themselves under strict organizational control, their very need to think is gradually eliminated. They almost hear the command: don't ask questions; obey the orders. In fact, in our modern education system, generally speaking, the involvement of students and, for that matter, of technical professionals in the phenomenon of power ever remains the best kept secret.

Here comes the question of an engineer's freedom to choose, in both moral and ethical senses. On them we rest the responsibility of making the world a better place by improving the lot of humanity. But are they free agents in the system of engineering? If not, how do we expect them to be socially responsible in the most ethical and moral ways?

The question has its genesis possibly in the engineering education itself where the central focus is given on the crucial "how" question. We supply required information to students to grapple effectively with this question. We teach them how to solve problems and how to get a project done. The "why" question is carefully left out from the curriculum. The fact is, we live in a political society where the type of technologies we develop and put to use make the society either good or bad. Engineers with their technical skill build the basic structures of our social and political future. Herein lies the importance of the "why" question, which, in a larger sense, includes the vexed question of their ethical choices.

Why should there be so many military projects to develop space-based offensive weapons? Do they at all serve the pressing central human needs like eradicating poverty from the society, ensuring economic freedom, justice and public good? Who stands to benefit and who to lose out of such projects. These are all very difficult questions. One needs to develop political imagination to answer them. But unfortunately, the engineers are nowhere encouraged to engage in political reflection. True, attempts are now made to teach ethics to engineering students. Our own University of Technology certainly deserves a praise in this regard. But the basic approach to teaching professional ethics does not delve deep into that important political reflection. Students read the ethical issues. But rarely do they express their willingness to talk about an engineer's ethical concerns. In fact, to many engineers their ignorance of those deep political issues is considered a bliss. Going by the popular trend of finding a place in the established hierarchy, they rather feel happy to be passive tools of whichever employer offers the highest package.

It is not that they are ignorant of the importance of integrity in life. But when their integrity is pitted against their personal security, when their moral and ethical concerns clash with their loyalty to their employers endangering their career, can they stake their future and behave ethically? When the very social institutions in our technological era often fail to operate under a system of ethical standards, should we hold responsible the engineers only for not being able to uphold integrity? We can not possibly blame them if they find support in the famous news analyst Henry J. Taylor who once said: "The grand corruption of our age in fact is the inability of so many eminent human beings the world over to practice simple honesty and speak the simple truth".

A S Mallik

MCKVIE WELCOMES ABOARD

	NAME	DOJ	DESIGNATION
1.	Mr Arijit Sen	17-Jul-07	Service Technician
2.	Ms Sunanda Samanta	17-Jul-07	Library Asst.
3.	Mr Priyanath Mahanti	25-Jul-07	Lecturer
4.	Mr Sougata Dey	25-Jul-07	Lecturer
5.	Mr Manas Pal	28-Jul-07	Lecturer
6.	Ms Shanta Guha	1-Aug-07	Library & Information Officer
7.	Ms Pubali Mukherjee	14-Aug-07	Lecturer
8.	Mr Samrat Paul	21-Aug-07	Lecturer
9.	Mr Subro S. Thakur	1-Sep-07	Lecturer Sr. Level (Presently Asst. Prof.)
10.	Mr Tapan Chowdhury	11-Sep-07	Lecturer
11.	Mr Amlan Karmakar	5-Sep-07	Lab-Instructor
12.	Mr Chinmoy Patra	1-Nov-07	Lecturer
13.	Ms Priya Begani	27-Nov-07	Counsellor
14.	Ms Ipsita Dalui	8-Jan-08	Lecturer
15.	Ms Pampa Sadhukhan	22-Jan-08	Lecturer

Don't count moments in life but count life in each moment

BAJA SAEINDIA 2007

In our last edition we reported that our boys in the Automobile Engineering Department took up with zeal and enthusiasm a project for manufacturing a vehicle suitable for off-road and rough terrains. It was meant for participation in a National Competition organized by BAJASAEINDIA at Indore (MP).

After a year-long effort our team finally designed and manufactured the vehicle. The despatch of the Car Ceremony was held on 14th Dec 2007 in the Campus. Hon'ble Minister-in-charge, Transport, Sports and Youth Affairs, Govt. of West Bengal Shri Subhas Chakraborty graced the occasion as Guest-in-Chief. The Hon'ble Minister, in his speech praised the efforts of the students and the Automobile Engineering Dept. He also assured all kinds of help and assistance in the Institute's drive for developing the Automobile sector in the State as also in the country. The Hon'ble Minister then flagged-off the vehicle for its despatch.

Meanwhile, the All-India Competition where 27 Institutes were short-listed for participation - ours being the only one from Eastern India - was held at Pithampur, Indore from 21-23 Dec 2007. To all our joy, our team won the second prize "in the Cost-Award section. It was a cash award of Rs. 40,000.00. Our heartfelt congratulations to the students who deserve the credit of upholding the brand name of the Institute.

The participating students were :-

- | | | |
|------------------------|---|---------------|
| 1. Prasann Kumar Singh | - 3 rd year Automobile Engg. | - Leader |
| 2. Saumya Kanti Bose | - 3 rd year Automobile Engg. | - Team Member |
| 3. Manik Kumar Adak | - 3 rd year Automobile Engg. | - Team Member |
| 4. Sanway Banerjee | - 3 rd year Automobile Engg. | - Team Member |
| 5. Padmesh Sewda | - 4 th year Automobile Engg. | - Team Member |
| 6. Sayantan De | - Ex. Student (pass out 2007) | - Team Member |
| 7. Avik Gupta | - Ex. Student (pass out 2007) | - Team Member |



ORIENTATION PROGRAMME '07

Like previous years, the Orientation Programme for the newly admitted students for the academic year 2007-08 was organized on 29th July 2007 at Malay Manch. The ceremony was attended both by the students and their guardians who were invited. Mrs Shanta Ghosh, President, BNCCI and Vice-Chairperson DC-Kulijian Group of Companies and Mr Amitav Mohan, Director, HLS India graced the occasion as Chief Guest and Guest of Honour respectively.

Both the honoured guests spoke at length on the future of Engineering education in the context of rapid technological growth and blessed the students with their well-meant advices.

The Principal Prof. A.S. Ray in his welcome address invited the guardians to associate themselves in the Institute's effort for all-round and continuous growth. The Hon'ble Chairman Shri S. S. Kejriwal in his address wished the young aspiring engineers all the best in their life. Among other dignitaries, the Managing Trustee Mr K. K. Kejriwal lent additional grace to the occasion by his presence.

FRESHERS' WELCOME

Freshers' Welcome function for the 2007-08 batch was held on 13th October, 2007 at Malay Manch with traditional joy and merrymaking. The day was marked by good music & dancing by students and a scintillating DJ event.

- Medal winners From
Automobile Engg. Dept (Batch
2003 - 04) at the W.B.U.T
Convocation 2007
1. Srijit Kumar Bera (Gold)
 2. Chandan Kumar Singh (Silver)
 3. Amitesh Das (Bronze)
- Congratulations to the winners**

Technotica 2007

In this year's Intra-college project competition **Technotica** large group of students submitted their projects. After several stages of screening 12 projects were exhibited in the final event that took place on 5th January 2008. Finally the 4 best-adjudged projects were sent to the BITM Eastern India Science and Engineering Fair at Kolkata. To our great pride, our students got the 1st Prize there.

Faculty : Papers Published by them in Journals

1. Mr Amit Phadikar (IT)
Co-Authors : B. Verma & S. Jain : "Region Splitting Approach to Robust Color Image Watermarking in Wavelet Domain", *Asian Journal of Information Management* : ISSN 1819-33AX, Vol. 1, No. 2 (2007) : PP 27-42.
2. Mr Arghya Sarkar (ECE)
Co-Author : Samarjit Sengupta, "A Low Cost Fault-Tolerant Real, Reactive, and Apparent Power Measurement Technique Using Microprocessor", *IEEE Transactions on Instrumentation and Measurement*, Vol. 56, No. 6 (Dec 2007) : PP 2672-2680.
3. Ms Ipsita Sengupta (ECE)
Co-Authors : Abhirup Das Barman & P. K. Basu, "A Single Spice Model For Traveling Wave Semiconductor Laser Amplifier" and in "Microwave and Optical Technology Letters", Wiley Periodicals Incorporated : Vol. 49, Issue 7, PP 1558-1561.

Faculty : Other Activities & Achievements

Participation in Seminars/Conferences by them and Lab Instructors and publication of Papers there in Conference Proceedings

Sl. No.	Faculty/LI	Seminar/Conference	Short Theme	Paper Presented & Published
1.	Mr Avijit Bose (CSE) Mr Arindam Das (LI,CSE) Mr Satadal Saha	UGC 1-day Sponsored National Level Conference organized by Netajinagar Day College, Kolkata on 20 November 2007	Radio Frequency Identification Device (RFID) Technology	RFID Technology in Intranet Security Remote Retrieval of Guinea pig's Sings through RFID
2.	Ms Pubali Mukherjee	3-day XXXIII Symposium of optical society of India at Tezpur University from 18-20 Dec. 2007	Optics and optoelectronics	Forfield Diffraction Properties of Annular Walsh Filters

Life is not tragic because we encounter failures in it but because we begin it so late

Sl. No.	Faculty/LI	Seminar/Conference	Short Theme	Paper Presented & Published
3.	Mr Indrajit De	International Conference organized by Govt Engineering College, Jabalpur from	Soft Computing & Intelligent system	Quality Prediction of distorted Images using Fuzzy Logic
4.	Mr Sudipto Chaki	27 December 30 December 2007 National Conference organised by Sardar Vallabhbhai National Institute of Technology in June 2007.	Emerging Trends in Mechanical Engg.	A Neural Network Approach for Computing Forward Kinematics of a 6-6 Stewart Platform
5.	Mr Amit Phadikar (IT)	International Conference organised by HIT, Haldia from 19-21 March, 2007.	Information Technology	A Spatial Domain Non-Oblivious Robust Image-Watermarking Scheme
6.	Mr. Arghya Sarkar (ECE)	International Conference held in Kolkata from 3 - 5 December 2007	Modeling and Simulation	Online three phase power Factor Estimation Under Non-sinusoidal unbalanced and Time varying condition
		IET conference held from 20-22 Dec., 2007	ICTES 2007	Design and Implementation of a Low Cost Fault Tolerant Three Phase Energy Meter
7.	Mr Ram Sarkar (CSE)	International Conference held in March 2007 in Kolkata	Computing : Theory and Applications (ICCTA)	A Fuzzy Technique for Segmentation of Handwritten Bangla Word Images

Seminars/Workshops/Training Courses attended by Faculty & Other Staff Members

Sl. No.	Faculty/LI/Others	Seminar/Workshop/Training	Short Theme
1.	Dr Premanda Jana (CSE) Mr Basudeb Ghatak Comp. Hardware Engineer	1-day Seminar Organized by IBM in Kolkata	Techno Break 2007
2.	Ms Lina Saha Mr Firoz Basu Dr A.S.Mallik (HRM&D)	1-day Seminar Organized by British Council, Kolkata on 5 September 2007	How to Sharpen your Presentation skills
3.	Mr Sekhar Choudhury	2-day ICTEAST 2007 Organized by CII, Kolkata	Step Forward to Global Leadership
4.	Mr Amit Phadikar (IT) Ms Shampa Ghosh	3-day colloquium organized Dept of CST, BESUS from 14 - 16 Nov. 2007	Impact of Images, Patterns and Architectures in the Digital Era

Short-Term Training Courses Attended By Faculty & Lab Instructors

1.	Mr Animesh Talapatra (AUE) Mr Sudipto Chaki	Short-Term Training at NITTTR Kolkata from 25-6-2007 to 29-6-2007	Power Hydraulic and Pneumatic
2.	Mr Animesh Talapatra (AUE)	Short-Term Training at NITTTR from 02-7-07 to 06-7-07	Air conditioning and Refrigeration
3.	Mr Arpan Deyari (ECE) Mr Ajoy Ghosal (LI,ECE) Ms Sakuntala Dutta (LI,ECE) Ms Mahua Raha (Petro) (LI,ECE) Ms Sumita Dutta (LI,ECE) Mr Arijit Sarkar (LI,ECE) Ms Susmita Sinha (LI,ECE) Mr Premansu Nag (LI,ECE)	Short-Term Training at NITTTR From 02-7-07 to 06-7-07	Optical Fibre & Optical Communication
4.	Mr Amitava Pal (LI,ECE) Mr Debasish Das (LI,ECE) Ms Sakuntala Dutta (LI,ECE) Ms Tanusri Bose (LI,ECE) Ms Sulagna Mitra (LI,ECE) Mr Mrinal Bhattacharya (LI,ECE) Mr Susmita Sinha (LI,ECE) Ms Sumita Dutta (LI,ECE) Mr Premansu Nag (LI,ECE)	Short-Term Training at NITTTR from 16-7-2007 to 20-7-2007	PLC and its Application
5.	Mr Shoumen Dasgupta (ECE) Mr Ajoy Ghosal (LI,ECE) Mr Arijit Sarkar (LI,ECE)	Short-Term Training at NITTTR from 16-7-2007 to 20-7-2007	Exposure on MATLAB
	Mr Kalipada Senapati	Infosys Compus Connect at Bhubaneswar from 8 Oct. to 12 Oct. 2007	Faculty Development Programme for soft skills

MCKV Institute of Engineering

243, G.T. Road (North), Liluah, Howrah - 711 204, West Bengal

Phone No. : 033-2654 9315/17 , Fax No. : 033-2654 9318, E-mail : mckvie@vsnl.net, Website : www.mckvie.edu.in

Published by the Registrar on behalf of the Institute & Printed by Perfectics (India)

Obstacles are those frightful things you see when you take your eyes off your goal