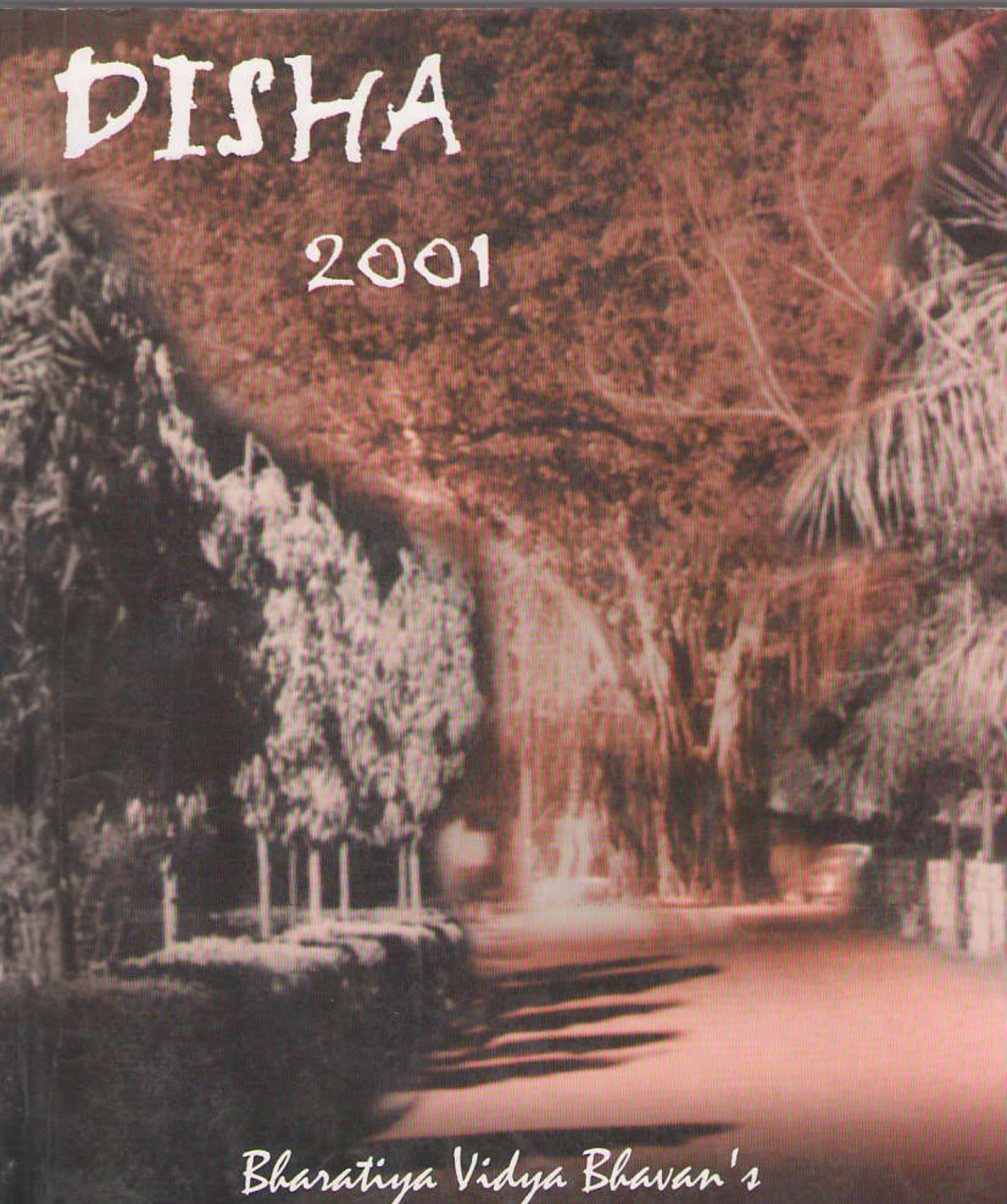
DISHA

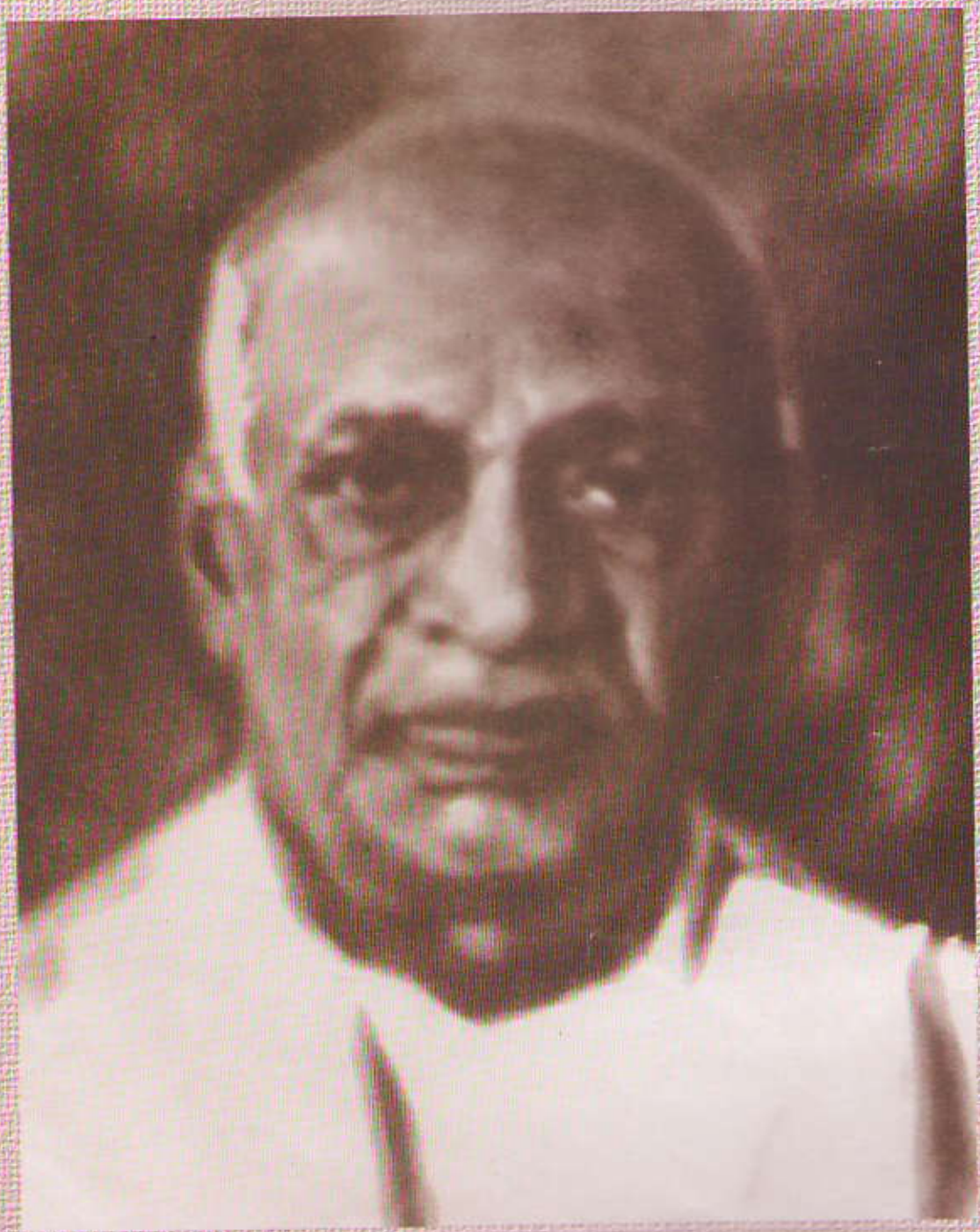
2001



Bharatiya Vidya Bhavan's

Sardar Patel College of Engineering

Shri Sardar Patel



BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL COLLEGE OF ENGINEERING

Mumbai

DISHA

(SARJANIKA)

ANNUAL ISUUE 2000-2001

"Education would fail ignominiously in its objective, if it manufactures only a robot and called him an economic man stressing the adjective economic and forgetting the substantive man. A university cannot afford to ignore the cultural aspects of education whatever studies it specializes in. Science is a means, not an end. Whereas culture is an end in itself. Even though you may ultimately become a scientist, a doctor, or an engineer, you must while in college, absorb fundamental values which will make you a man of culture. An engineer has not merely to build bridges; he has to be a devoted husband, a kind father, a friendly neighbour, a dutiful citizen, and a man true to himself. He will have trials and tribulations; his heart will fail him at times; he will then need the strength which true culture alone can give."

- Kulpati Dr. K. M. Munshi

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DISHA-THE MAKING



The days may have passed by swiftly; but then those were the days that made all the difference between existing and living. They weren't without their trials and tribulations, but then neither were they without that all pervasive sense of achievement and contentment that ensue every concerted human activity. That's the true spirit of SPCE!

The unfortunate absence from lectures apart, the making of DISHA has been a great learning experience for me. The onus of bringing out the college magazine has never been an easy one; all the more difficult this year with very little time post-SPACE to put our act together. We saw this as a challenge, and if anything, it only helped us make this edition better! The magazine has always been symbolic of the enhanced thought and intellect nurtured in this college. The same is reflected in this edition of DISHA, where we have tried to hit that right balance between the serious, the informative, the humorous and the frivolous. I hope DISHA, has lived up to the high standards of preceding editions.

DISHA, this year, packs a wallop, with a lot of firsts. For one, we have an exclusive message from Ustad Zakir Hussain as also one from Ustad Sultan Khan for all of us SPC'ites. The Tech section was introduced this year with the objective of propounding and inspiring scientific thought and interest amongst all. Apart from some comprehensive but lucid articles on a host of tech subjects, there's also an exclusive interview on the Mars probe conducted on the Internet with Mr. Sriram, professor and scientist at NASA. Another first are the BE photographs. I thank all our BE students for complying to my request of having the class photographs on such a short notice, and apologize for any inconvenience caused by it. But then, considering the sentimental values attached to such occasions, accentuated further by the passage of time, I guess it was every bit worth the effort. And to endorse the fact that the college is always behind it's sports teams who have practiced long for their moment of glory as also ours, we have included their photographs as well! The theme-based sections are an experiment to try out something different. The themes have been chosen keeping the content in mind and not vice-versa.

I take pride in the fact that every aspect of the magazine (more importantly the cover design and most of the photographs) has been done by those amongst us. The credit for the superlative cover design goes to Ashutosh and Dhananjay. It depicts the transit from ignorance to knowledge. A few of the other cover design entries can be seen in the dividing pages used for the individual sections.

As for the sections, I must compliment Sanket and Ramchandra for putting their heart and soul into the Marathi section . Kudos to the 'illustrious' Neeraj who has helped me edit the English Section, as also enlivened the magazine with his illustrations. Ravi has managed the Hindi section wonderfully, as also been of help in bringing in advertisements. Dhananjay's photographic finesse was put to much use as the official photo-editor for DISHA. We did cash in on Moiz's expertise at getting advertisements, as also Gaurav's skill at illustrations. There are those who deserve a worthy mention for more reasons than one and these include Aparnasri, Aniket, Amit, Balram, Kritika, Ramesh & Rajesh. Thanks are due to Karthik, Siddharth, Utpal & Pranil, whose counsel has been indispensable.

The magazine wouldn't have been possible but for the able guidance and support of Prof. Dr. Mrs. Patwardhan, as also Prof. R. M. Joshi who were key in giving DISHA the much needed facelift. And speaking about guidance, Mrs. Madhavi Gokhale deserves a mention. We are also obliged to Prof. Bambole, who has been kind enough to let us use his comp lab.

In conclusion, I'm reminded of the words, 'The greatest thing in the world is not so much where we stand as in what direction we are moving'. Here's wishing all ye SPC'ites success on the road ahead.

NIRANJAN SHETTY
Magazine Secretary
Students' Council

THE ANNUAL REPORT

Dr. R. S. Mate

I will now present a brief history/background of the college

- The college was started in 1962 with courses in Civil, Electrical and Mechanical Engg. with an intake capacity of 60 each.
- Subsequently, Part Time Degree courses in Civil, Electrical and Mechanical Engg. were started in 1985. These courses were for Diploma holders with an intake capacity of 60 on a self supporting basis.
- Unaided courses in Computers and Electronics were started in 1994 with an intake capacity of 60. subsequently, course in Information Technology was started in 1998 with an intake of 40 which was increased to 60 in 1999. The college has proposed to increase the intake to 120 in Computers, Electronics and Information Technology.
- The college also conducts three Part Time Post Graduate courses in Civil Engineering with Structural Engineering, Geotechnical Engineering and Constructional Management subjects. Department of Mechanical Engineering has started a three year Part Time Post Graduate course of M. E. (Mechanical) with Machine Design subjects.
- Construction work for new building of unaided wing has been commenced from February 2001. The total estimated construction cost will be Rs.2.5 crores.

The website of our college can be reached on http://www.spce.edu. Another website, http: www.bhavansspce.com has also been launched.

A) Academic Achievements of our students

The results of University Examinations held in May/June 2000 in various branches have been fairly good. The results of the final year have been extremely good and were as follows:

Examination	% of Passing
B.E. (Civil)	86.11
B.E. (Mechanical)	93.42
B.E. (Electrical)	93.42
B.E. (Electronics)	82.43
B.E. (Computers)	92.75

Academic achievements of our final year students have been excellent. The rank positions of our students in Electrical, Mechanical, Civil, Computers and Electronics Engineering are as follows.

1. **Electrical Engineering**
   a) Shri Madhu Nilesh M. — 1st in University
   b) Kum. Hegiste Pradnya V. — 3rd in University
2. **Mechanical Engineering**
   a) Shri Dey Shantanu Subhash — 2nd in University
   b) Shri Patankar Pradnyesh B. — 4th in University
3. **Civil Engineering**
   a) Kum. Sakhalkar Sucheta Hemant — 8th in University
4. **Computer Engineering**
   a) Kum. Pereira D'laila Emelyn — 3rd in University
   b) Shri Bhandari Arun Nathmal — 6th in University

5. Electronics Engineering

a) Shri Dingankar Aasif Shaukat Ali — 12th in University

b) Shri Sakpal Sudarshan Ramchandra — 43rd in University

B) Other Major Student Achievements

1. Miss Shobha Vasudevan, Shri Rohit Ipe & Shri Rishi Matthew, students of B.E. (Computers) obtained full score in the GRE.
2. Shri Subhash Dalvi, student of B.E.(Civil), Part Time Degree Course and Officer on Special Duty, MCGB was awarded the Rashtriya Yuva Award instituted by the Ministry of Sports and Youth Affairs, Government of India, for his outstanding work during the Orissa Cyclone. He is also leading the MCGB team of 300 volunteers for relief work in the Gujarat Earthquake.

C) Details of Achievements of Higher Qualifications by Faculty

1. Prof. D. N. Jadhav, Lecturer from Mechanical Engg. Deptt. completed his M.Tech programme at IIT Madras in January 2000. He was sponsored by the college under the QIP scheme.
2. Prof. Smt. R. Easow, Asst. Prof. in Mechanical Engg. has been selected for Ph.D. programme at IIT Bombay under the QIP scheme. She will join the programme in July 2001.
3. Prof. A. S. Bage, Asst. Prof. In Structural Engg. has been selected for Ph.D. programme at IIT Bombay under the QIP scheme. He will join the programme in July 2001.
4. Prof. D.M. Patil, Lecturer in Structural Engg. has obtained a degree of M.E.(Civil) with structural Engineering subjects.

D) Other major faculty achievements

1. Dr. R. S. Mate, Principal, was nominated as the Chancellor's nominee and Member of Executive Council of Dr. Babasaheb Ambedkar Technological University, Lonare, Raigad, as eminent scientist.
2. Dr. P. V. Parameswaran, Professor and Head, Civil Engg. Deptt. and Chairman, Board of Studies, Civil Engg., is elected as Dean, Faculty of Technology, University of Mumbai.
3. Dr. P. V. Natu, Professor, Mechanical Engg. is appointed as Head of Mechanical Engg. Deptt. in August 2000.
4. Dr. S. Y. Mhaiskar, Vice Principal and Professor in Civil Engg. is appointed as a member of the task force committee set up by the Ministry of Textiles, Govt. of India for growth of Technical Textiles in India.
5. Dr. M. M. Kulkarni is selected on the editorial board of the Journal of Aerosol Science and Technological Association, India.
6. Prof. A. N. Bambole has been selected as an expert for ISO audit by Ministry of Information Technology.

E) Papers Published by Staff Members

Following staff members published papers in various national and international conferences and journals

Name of staff member	Title of Paper	Date	Venue/Publication
Prof. A. V. Bhonsale, Mechanical Engg. Deptt.	Effective Total Quality Management through Information Technology development		National Conference on IT-Vision 21st Century, Pauri Garhwal, UP

Name of staff member	Title of Paper	Date	Venue/Publication
	Training Teachers TQM principles to lead their institution of TQM path		Conference on quality in engg. education, Pune.
	KAIZEN in teaching learning process	July-September, 2000	Journal of Engineering Education
Shri A. Bahendwar, TPO	1. Burnishing: An Economical Surface Finishing Process. 2. Quality & the hands responsible for it.	10th-11th February, 2001	National Seminar on 'Modern Methods for Economic & Quality Production', by Gramin Polytechnic and AICTE, Nanded
Dr. Avani Umatt.	Evaluation of Graft copolymers of agar for sustained release of Diclofenac Sodium from Tablets	16th-17th October, 2000	XV Carbohydrate Conference, organized by Sardar Patel University & Assc. Of Carbohydrate Chemists & Technologists (India), Vallabh Vidyanagar
Shri G. T. Thampi & Dr. S. S. Mantha, Mechanical Engg. Deptt.	Critical Study of Web Enabled Education in the realm of distance learning	25th-27th August, 2000	International Conference, Samos land, Greece.
Dr. M. M. Kulkarni, Civil Engg. Deptt.	Economic Evaluation of Waste minimization: options for Textile Industry.	5th-6th May, 2000	International Conference-EnviroVision 2000 organized by Indian Environmental Assc. At World Trade Centre, Mumbai.
Prof. Smt. Prachi Gharpure, Electrical Engg. Deptt. Co-author- Dr. S. P. Mudur	Knowledge representation for Individualized learning	30th Oct-4th Nov, 2000	Accepted for AACE's International Conference on Web based Learning, San Antonio, USA
	Authoring Media Objects for Individualized Learning	Dec, 2000	National Conference on Multimedia Authoring, Calcutta.
Prof. P. Shrivastava, Civil Engg. Deptt.	Integrated Urban Mass Transportation System	4th-7th November, 2000	61st Annual Session of Indian Road Congress (INC), Calcutta
	Development of a Model for Operational Integration of Public Transport Mode- A case study of Mumbai	15th-16th September, 2000	All India Seminar on Urban Mass Transit Systems, organized by Institution of Engineers, Mumbai

Name of staff member	Title of Paper	Date	Venue/Publication
	1.Integration of sub-urban trains and public busses at suburban railway stations in Mumbai 2.Optimal design of bus transit network using genetic algorithm 3.Optimum scheduling of trains in the context of suburban train network	Scheduled 22nd-28th July, 2001	Accepted for the 9th World Conference on Transportation Research (WCTR) to be held in Seoul, Korea.
Prof. P. Shrivastava, Civil Engg. Deptt. Co-author- Dr. S. L. Dhingra	An approach for integration of public buses and suburban trains-a case study of Mumbai		Archives of Transport, Quarterly, published by Polish Academy of Sciences, Warsaw, Poland
	An overview of bus routing and scheduling techniques	June 2000	Highway Research Bulletin, India
	Application of Advanced Techniques for Transportation Planning for New Millennium	10th -11th March, 2000	Proceedings of Silver jubilee Conference on 'Road Infrastructural Management (RIM) in the New Millennium', Bangalore University, Bangalore
	Integration of Urban Mass Transport Systems	19th-20th January, 2000	National Seminar on National Connectivity vision: surface transportation and communication', Indian National Academy of Engg.
Shri M. M. Murudi, Asst. Prof. Structural Engg. Deptt.	Tuned liquid Dampers for controlling earthquake responses of structures	May, 2000	International Journal of Earthquake Engineering and Structural Dynamics
	Multiple tuned liquid dampers as seismic control devices	25th-27th October, 2000	Proceedings of first international conference in 'vibration engg. and technology of machinery', IISC, Bangalore

Name of staff member	Title of Paper	Date	Venue/Publication
Prof. Smt. S. M. Pandit, Electrical Engg. Deptt.	An OOP based Real and Reactive Power Control Algorithm for Large Scale Systems	January, 2000	IEEE Winter Meeting, Singapore
	Distributed Computing for Network Topology Processor using CORBA objects	July, 2000	International Conference, CCSP-2000, Bangalore
	Object Oriented Power System Applications	October, 2000	IEEE Computer applications in Power
	Object Oriented Network Topology Processor using Graph Theoretic Abstractions	December, 2000	11th National Power System Conference (NPSC), Bangalore
Prof. Y. S. Rao, Electronics Engg. Deptt.	1. ECG Analyzer and Transmitter 2. Hand held ECG monitoring system.		National Conference on Bio-Medical Engg. Roorkee University, Roorkee.

E) Details of Training Programmes Organized

- A five week winter school in "Object Oriented Programming in C++ and Java" was organized by the Mechanical Engg. Deptt. during 27th Nov-29th Dec. 2000. Dr. P. V. Natu was the co-ordinator and Prof. G. T. Thampi and Prof. M. M. Shah were co-coordinators.
- Deptt. of Mechanical Engg. organized training programme in the areas of computer aided design process and Finite Element Methods using software packages.

F) Sponsored/ Consultancy Projects

- Deptt. of Mechanical Engg. is awarded a project entitled "Modernisation of Thermal Engineering Laboratory" with Dr. R. S. Mate as the co-ordinator. AICTE has funded Rs. 10 lakhs for this project.
- Deptt. of Civil Engg. is awarded a Thrust Area Research project entitled "Source Appointment of Human Exposure to Particulates in Mumbai" with Dr. M. M. Kulkarni as the Principal Investigator. AICTE has funded Rs. 19 lakhs for this project.
- Total revenue earned from testing and consultancy during the financial year 2000-2001 was Rs. 15 lakhs.

G) Modernisation From Internal Funds

Modernisation of Computer Centres with the cost of Rs. 50 lakhs is complete. New Computer Centres will now have around 100 P III computers.

H) First Year Engineering Admissions

The Government of Maharashtra entrusted the work of F. E. admissions to our college for Round 3A and Outside Maharashtra State (OMS) candidates for all Government Aided and Unaided Engineering Colleges in the state of Maharashtra. Prof. M. M. Shah was the co-ordinator and Dr. M. M. Kulkarni, Prof. A. N. Bambole and Prof. A. S. Chavan were the joint co-ordinators. The whole admission procedure was computerized and admissions were made online. All the teaching and non-teaching staff members worked very hard. Students of F. E. (IT) class participated in this work as volunteers. The work was appreciated by parents and students.

Our Chief Guest-A Profile

Dr. Bhalchandra L. Mungekar is the Vice Chancellor of the Mumbai University. Prior to this he was on deputation as member of the committee on Agricultural Costs and Prices in the Union Ministry of Agriculture. Dr Mungekar has 26 years of teaching experience and 20 years of research work behind him. He has also guided research scholars, with two students having completed their PhDs and six their MPhil courses under him. Awarded the UGC teacher fellowship in 1982 for his doctorate in economics, Dr Mungekar is also a known writer. In his chequered career, Dr Mungekar has been associated with several institutes, both within and outside Maharashtra. He is founder-president of the Dr Ambedkar Institute of Social and Economic Change; trustee of the Ashoka Mehta Institute of Management and Research; founder-president of Sahayog Pratisthan; founder-vice president of the Academic Forum; member of the board of studies in economics, Dr Babasaheb Ambedkar University, Lucknow, and member, board of studies in economics, Dr Babasaheb Ambedkar University, Aurangabad. Besides, he is a resource person at the Jawaharlal Nehru University, New Delhi, the Gokhale Institute of Politics and Economics, Pune, Dr Babasaheb Ambedkar University, Aurangabad, Academic Staff College, Central University and Agricultural University, Hyderabad.

His academic credentials are also exemplary, and more so because he completed most of his studies while working. His has not been an easy road to tread. If anything, he has arrived where he is today not just professionally but as a human being 'against all odds' to borrow a cliche. His late father was a casual worker in the village, educated up to the second standard himself, encouraged young Bhalchandra to study further and get an education. In 1960, a move to Mumbai and to standard eight at the Nav Bharat High School in Parel, brought Dr. Mungekar under the heady post independence influence of freedom fighters and idealists. He did his mentors proud by gaining first place with a score of 70 per cent in the SSC exams in 1964. He joined the Reserve Bank of India (RBI) as a clerk in 1965 so as to earn and learn. In 1973, the year he graduated with his MA-Economics, he resigned from the RBI to concentrate on academics. Dr Mungekar taught at the Siddharth College of Commerce and Economics, from 1981-82. March 1982 saw him embark on his PhD at the Mumbai University which he completed in 1987. In the same year, he was appointed lecturer in General Economics. His career has taken him from being a Reader in Agricultural Economics in 1988, to Professor of Industrial Economics in May 1998, to official member of the CSAP in November 1999, until his present position.

But it is not just his academic qualifications that have set Dr Mungekar apart. Having been actively involved in various organisations working towards bringing about a social change, he is known for championing social causes. Dr Mungekar has been associated with various activist groups such as the Yuva Kranti Dal, which spearheaded the Marathwada Development Andolan in 1973 as well as the Dalit Scholarship Andolan in 1974. He had earlier served as vice-president and general secretary of the Bombay University Academic Staff Association and was also member of the Bombay University and College Teachers Union.

Three books, four monographs, 18 articles, numerous lectures and seminars in India and abroad are among his achievements. Making the University more people-friendly and the system more transparent, accessible and open to all, with newer courses and research facilities are amongst his priorities. There are three main issues close to his heart: secularism, and ensuring that there is no gender or caste discrimination. He states teaching as his final destination.

It is for the first time in the history of SPCE, that a person of the stature of a Vice Chancellor has graced our college and we were privileged to have Mr. Mungekar amidst us as the chief guest for the 38th College Annual Day held on the 24th of February, 2001.

GYMKHANA COMMITTEE

PRESIDENT : **DR. R. S. MATE**
VICE PRESIDENT : **PROF. R.M. JOSHI**
GENERAL SECRETARY : **RAJESH ACHARYA**
CULTRAL SECRETARY : **VISHAL KAKKAD**
MAGAZINE SECRETARY : **NIRANJAN SHETTY**
SPORTS SECRETARY (OUTDOOR) : **PRADEEP SHARMA**
SPORTS SECRETARY (INDOOR) : **KAUSHIK GUNE**
LADIES REPRESENTATIVES : **APARNASRI SASTRY & SMITHA KUTTY**

CLASS REPRESENTATIVES

F.E. (ELECT)	1) ANKIT RUNGTA	2) DEEPA HARSHE
F.E. (MECH)	1) SWAPNIL SHIRODKAR	2) KETAKI JOSHI
F.E. (ETRX)	1) AJAY D'SOUZA	2) VIJAY TODKAR
F.E. (COMP)	1) SHAGUFTA MOMIN	2) YUGANT
F.E. (I.T.)	1) SHRIJIT PLAPALLY	
S.E. (CIVIL)	1) GAURAV SHRIVASTAV	2) SNEHAL KADAM
S.E. (ELECT)	1) SUSHANT BARVE	2) VENKAT SHANKAR
S.E. (MECH)	1) PAWANKUMAR	2) ARUN PRASAD
S.E. (ETRX)	1) RYAN MASCARENAS	2) VINAY BHATT
S.E. (COMP)	1) PREMAL PARIKH	2) SHARVARI
S.E. (I.T.)	1) MOIZ TANKIWALA	2) ANSHUK JAIN
T.E. (CIVIL)	1) VISHAL KAKKAD	2) MITESH SOMANI
T.E. (ELECT)	1) NIRANJAN SHETTY	2) DEEPAK MAHAJAN
T.E. (MECH)	1) NEERAJ SONALKAR	2) KAUSHIK GUNE
T.E. (ETRX)	1) RAJESH ACHARYA	2) PRADEEP SHARMA
T.E. (COMP)	1) ANIKET DAPTARI	2) NEENA MALDIKAR
T.E. (I.T.)	1) JAYESH PATIL	2) SUKAINA BAWA
B.E. (CIVIL)	1) KARTHIK MANI	2) JAIDEEP JOSHI
B.E. (ELECT)	1) ANIKET KADKOL	2) SIDDHARTH NASHINEY
B.E. (MECH)	1) ATUL RAUT	2) HIMANSHU RAJURKAR
B.E. (ETRX)	1) ZUBIN BAWA	2) DAIVAK SHAH
B.E. (COMP)	1) NIMISH SHAH	2) PARITOSH SHROFF

MAGAZINE COMMITTEE

EX-OFFICIO : DR. MRS. M. PATWARDHAN
MAGAZINE SECRETARY : NIRANJAN SHETTY

EDITORS

ENGLISH SECTION : NIRANJAN SHETTY, NEERAJ SONALKAR
MARATHI SECTION : SANKET MAGARKAR, RAMCHANDRA JOSHI
HINDI SECTION : RAVI TODI
PHOTO EDITOR : DHANANJAY PARAB
ILLUSTRATIONS : NEERAJ SONALKAR, GAURAV SHRIVASTAV

GENERAL SECRETARY'S REPORT



The woods are lovely, dark and deep,
But I've promises to keep,
And miles to go before I sleep.

These four lines aptly summarize my frame of mind when. I took over as the General Secretary of the Gymkhana Committee on October 2000 under the able guidance of Prof. R.M. Joshi, the vice-president of the Gymkhana Committee.

Gymkhana activities have always been an ingrained part of the curriculum in S.P.C.E. Participation from all branches and co-operation from the teaching & non-teaching staff members, have made S.P.C.E one of the most active engineering colleges in the city. With the odd semester reaching towards its end when we were elected, no Gymkhana activities could be organised. But everyone was looking forward to the next semester. The Annual Budget for Gymkhana Activities was sanctioned in the first Gymkhana Committee meeting which took place on November 2000.

With the odd semester examinations getting over, plans were made for the Gymkhana Activities in the coming semester. The first Gymkhana activity was Technobreak Millennium, our intra collegiate cultural festival, scheduled for 20th & 21st January, 2001. This year for the first time we had 6 branches working together for a big event. Despite being on a weekend, the participation seen from the 23 classes was tremendous. A host of new events were introduced, tried and tested amongst the total of 35 events including sports events like T.T. carrom & chess. Finally T.E. Computers walked away with the Technobreak shield. Technobreak being the dress rehearsal for Space 2001 proved as a good testing ground for the whole team. SPACE 2001 was the next big event we faced, scheduled for 21st, 22nd & 23rd of February 2001.

With just a month left for SPACE, the work for SPACE 2001 shifted into top gear with the sponsorship team working day and night to get in the money. Under the able guidance of Prof. R. M. Joshi & Prof. Abhay Bambole, the Space 2001 ex-officio, the efforts of the entire SPACE crew materialised on 21st February, the first day of SPACE. This year we had 38 colleges from all over Bombay participating in 47 events spread over 9 categories thanks to our interactive committee. Credit goes to all departments especially finance, logistics, security, events, administration, reception and particularly volunteer management who managed to motivate the F. E.'s inspite of their exams getting over on 20th Feb. This year SPACE saw the introduction of the Rock show in place of the fashion show which was a huge hit with a performance by the internationally acclaimed Rock band 'Brahma'. This year for the first time the Pro-nite was held at the Bhavans ground, with Ustad Zakir Hussain & Ustad Sultan Khan together doing a jugalbandi for the noble cause of Gujarat Earthquake Relief. All I can say is that our committee has sky rocketed SPACE, and I hope the next committee makes it an even better one.

The 38th College Annual day was celebrated on 24th of February. This year we had Dr. Bhalchandra Mungekar, the Vice-chancellor of Mumbai university, gracing the occasion as the chief guest. He also conducted the prize-distribution ceremony which was followed by a rib-tickling Marathi dance-drama organised by noted Marathi theatre & film personality, Mr. Vijay Kadam. Credit especially

goes to the L. R.'s and the S. E.'s who handled the prize distribution excellently along with Mrs. Madhavi Gokhale.

The next significant cultural event was the Marathi Sahityakala Mandal's 'Bhavspandan' conducted by Prof. S. L. Pendse on 1st March. Following closely on 2nd March, was the Rose day along with formal day. Rose-day saw the S.E.'s come together as a team of brilliant organisers and clearly brought out the importance of friendship and love on that day.

Among the Seminars organised during the year, were those on stealth technology by MESA, W.A.P. by informatics, Vedic Mathematics organised by the IEEE and that on 'the Goal of life' conducted by ISKCON.

Finally the activities for the year concluded with the B.E. farewell party on 23rd March. As I reach the end of my report, the acknowledgements are in order.

First of all I thank our principal Dr. R. S. Mate and Vice- Principal Dr. S. Y. Mhaiskar for supporting all our student activities. Thanks are also due to Prof. R. M. Joshi, the Vice President of the Gymkhana Committee without whose help nothing would have materialised. I would also like to thank Prof. Abhay Bambole, who meticulously guided us during the preparation of Space. Thanks also due to Prof. Chavam, Prof. Raul, & Prof. Shah who helped me during SPACE in more ways than one. I also express my heart felt gratitude to Prof. Bukhtar, Prof. Rathod, Prof. Pimple, Prof. Godbole, Dr. Avani Umatt, Mrs. Gokhale & Mrs. Solanki who helped us throughout SPACE. I would also like to thank Mr. Jagtap & Mr. Hemant of maintenance department who helped us when it came to college requirements. Thanks also to all the office workers & security who helped us in all moments of crisis.

Amongst my fellow students, I thank Vishal Kakkad (Cultural Secretary), Amit Jardosh (Chairman-SPACE 2001), Chinar Aphale (Head of operations SPACE 2001), Parag Mehta (Head of Finance-SPACE 2001) & Shashank Ware (Head of Admin.) who helped me everytime while taking important decisions pertaining to SPACE. Special thanks to Joyston Lewis (Treasurer) who did the job of keeping accounts excellently. Thanks are also due to Subir, Kaushik, Dhananjay, Amit, Swapnil, Sachin (Logistics), Parag & Upendra (Security), Ketan & Bhushan (Refreshments), Siddharth, Abhay, Kaustubh (Volunteer), Amey, Ameya (Admin.), Kritika , Shripad & Rohit (Decorations), Ankush & Sudipta (Printing), Ganesh & Saurabh (Judges), Ravi, Rohit, Sukaina, Tushar (Interactive), Aparna & Smitha (Reception), Jai, Gaurav, Vidya, Ambrish, Nihar (Sponsorship), Nimish, Sunil (Publicity), Amar, Ankur, Mrinal, Sumedh, Sumeet (Web-Dev & Design) Aniket & Narayan (pronites) & Sushant, Vihang, & Alpina (Special Attractions).

Special Thanks to Vishwanath (Chief events Co-ordinator), along with his team of Co-ordinators & Organizers, for conducting the events smoothly during SPACE. And hats off to all the F.E. volunteers & the security guys who worked selflessly during the three-days of SPACE. My heart felt thanks to all my seniors particularly Pranil, Utpal, Rishi, Ninan and Karthik who guided me throughout my tenure.

Finally, as I conclude my report, I thank my fellow students, Council members & every S.P.C.'ite for making this year a memorable one for me.

RAJESH ACHARYA
General Secretary
Students' Council

CULTURAL SECRETARY'S REPORT



"The task of a leader is to envisage and bring about changes which hav beneficial long term consequences not only for his or her part of the organ zation but for the organization as a whole."

This was precisely my motto as I assumed responsibility as the Cultural Secretar for the year 2000-2001. And today, in retrospect, 'my heart is full of satis faction; the satisfaction that the year gone by was unarguably an astoundin success.

After the delayed elections to the Students' Council, there was hardly any time left for any activit to be conducted in the first term. Hence, Technobreak was conducted on 20th & 21st Januar 2001. Technobreak Millennium, as it was called, was characterized by 35 events spread over tw days. It was simply great on the part of S. E.'s who managed organizing the events and als volunteering in the absence of F. E.'s. They were well supported by T.E's. The things that we learn from this intra-collegiate test went a long way in improving the quality of the gala event at SPACE 2001.

Then came the king of all events, the dream of every SPC'ite, the biggest challenge for the Student Council for which it awaits throughout the period it gets elected- SPACE' 2001.

Friends as you know, we had promised that this SPACE would be 'better than the best & grande than the grandest'. But such things are easier said than done. Thanks to the grand effort of ever SPC' ite who worked selflessly and with great enthusiasm SPACE-2001 held on 21st, 22nd & 23r February, 2001 was a grand success. For the first time in its history the professional nite was don at the Bhavan's ground. And the performer on the nite was none other than the tabla maestr Ustad Zakir Hussain accompanied by Ustad Sultan Khan on the Sarangi. The proceeds of the sho were donated to Mumbai University's Vice-Chancellor's Gujarat Earthquake Relief Fund. The Occasio was marked by an audience of around 4000. On the other nite we had a Rock show, performe by Brahma & Pythagoras of the right angles.

With a 600 strong working force and able working committee, the festival sailed smoothly for thre days. With 90 events in seven categories spanning over 3 days, the festival was a big success Of course, two pro-nites, gave our college fest a kick-start and launched it into the high esteem cadre of fests. I hope the members of the next council propel SPACE to touch new heights.

The college Annual Day celebrated on 24th February 2001, was graced by the Vice-Chancello of Mumbai University Shri B. L. Mungekar. It was followed by an entertainment program by Shr Vijay Kadam. I thank the prize distribution committee and the refreshment committee for thei tremendous efforts.

Rose Day was celebrated on 2nd March along with the Formal Day. The fine blend of feelin and colours soothed the hearts of many on this occasion I thank the Rose Day Committee which comprised all S.Es who worked magnificently in a short span of time to make the even a success.

Marathi Sahityakala Mandal celebrated Bhavspandan' 2001, a special cultural event on 1st March 2001. Marked by the singing and performing talent of students and staff members alike, the even

was a sheer treat for the audience. Thanks to Prof. S. L. Pendse who, along with the members of the mandal, organised the event.

With some more events still lined up, like Nirman, B.E. Farewell, I wish that SPC'ite will continue to participate and work in numbers.

As I come to the end of my report, acknowledgements are in order:

First let me thank, Prof. R. M. Joshi for his 3D's. Determination, Dedication and Devotion for all the activities of Gymkhana Committee. Thanks are also due to Prof. A. N. Bambole whom I felt to be just one amongst us with desire even more than any of us to make SPACE' 2001 a great success. Also I am thankful to the staff members committee of Prof. Bukhtar, Prof. Rathod, Gokhale Madam, Avani Madam, Prachi Madam who helped us in every possible way. I thank Nandkumar Sir for his support to the technical team. I am thankful to Jagtap Sir & Hemant Sir of Maintenance Dept. for providing us help even without asking for it. Thanks to the office workers non-teaching staff members and security which helped us in every minute crisis. I thank all the classes of F.E. for showing such energetic enthusiasm in the form of participation, volunteering and for other help.

It was a great effort by volunteer management guys, Kaustubh, Siddharth, Abhay who handled the task very well. I sincerely thank security In-charges Parag & Upendra who led the security forces from S.E's & T.E.'s in all the cultural activities (especially during Rock show & Ustad Zakir Hussain's Nite). Thanks also to Vishy who led his team of co-ordinators and organisers and conducted the events smoothly. Logistics headed by Subir, Kaushik, Dhananjay, Swapnil, Amit & Sachin, mixed their blood and sweat to keep the fest standing. I also thank the decoration team of Kritika, Shripad, Rohit, Parna, Neeraj who were supported by S.E.s & T.E.s. for their innovative ideas which gave the college a face-lift; the judges co-ordinators- Ganesh & Saurabh; administration led by Amey and his reception team members with Aparana & Smitha; the interactive committee headed by Ravi, Rohit, Tushar & Sukaina; and the most overworked department of refreshments led by Bhushan & Ketan. Thanks also to the technical team of Girish's, Kishore, Aniket D. and the web development team of Amar, Mrinal, Sumedh, Ankur, Sumeet. My sincere thanks to Aniket who helped in getting Ustad Zakir Hussain and Narayan for conducting the Rock Show. Thanks are also due to publicity in-charges Nimish and Sunil and to printing in-charges Ankush and Basu. Last, but not the least, the sponsorship team headed by Gaurav, Jai & Vidya who along with other T.E's & S.E's got the finance without which it would not have been possible to carry out SPACE. Also I am greatly indebted to Rajesh Amit, Shashank, Chinar and Parag who ensured the perfect environment for me to work. Thanks to my seniors, especially Pranil, Devang, Ninan, Rishi, Utpal who had given me the right background and encouragement to work on. Finally before I end my report I would like to thank all SPC'ites for making this year the most memorable year of my life. And I conclude by saying

"There is nothing you cannot achieve,
There is no destination you cannot reach,
There is nothing you cannot do
If hope is alive and efforts are true."

VISHAL S. KAKKAD
Cultural Secretary
Students' Council

SPORTS SECTION





"IN DREAMS BEGIN RESPONSIBILITIES"

This famous line coined by W.B.Yeats had come to our mind when we were first appointed as the joint SS of S.P.C.E. We knew that the post of being SS of such a 'sporty' and 'lively' college definitely had a lot of responsibilities to be fulfilled. But today as we sit together to pen down our experiences this line is followed by another thought; S.P.C.E has proved to us that if we have a conviction, then it's not long before your dreams (with the responsibilities of course) become a reality.

The following are the details of all the inter-college tournaments:

VOLLEYBALL: WHAT SPCE BREATHS!

Engineers are always considered to be bookworms. It is inherently taken for granted that engineers are always busy in drawing sheets, assignments, practicals and vivas. But SPCE has the stuff to prove all such myths wrong.

The first inter-college event in this academic year was Volleyball. Going by the team's performance last year, the players were in high spirits. And why should they not be? Having reached the quarterfinals last year the team definitely looked forward to a much better quality of play.

The first match was against Wilson College, which was a relatively weak team. However, being the first match, the boys displayed a rather sluggish game and had a setback in the first set of 9-23. However, they made a dramatic come back to win the set 25-23 and to take away the match with 25-9 second set victory. The second match against Kale College was a tough game. But, as champions do, the boys took the game in their stride with a ravishing victory of 25-9 and 25-6. Beating Podar College in next round with convincing scores 25-9, 25-12 SPCE became the winners of pool A. The next match was against a team from Vengurla. But with players of the class we have, there was no looking back. We beat them 25-16, 25-12 to enter the semi-finals of the tournament. The next match, a walk through fire, was against the defending champions Sathaye College. WE lost the first set 25-16. The team was in disarray. But we reorganised ourselves to take a lead of 11-4 in the second set but lost to Sathaye 25-23..

But every cloud has a silver lining. The sorrow of a defeat was nothing compared to the joy of the news that followed. One among us KAUSHK GUNE was selected to represent Mumbai University Volleyball team to compete at the ALL INDIA Level. If that was not all, our volleyball boys are the unbeaten champions at Avishkar 2001. They defeated Vivek college (25-6,25-10) in the first round, to take on K.E.M, the host, in the next match. Having beaten them (25-0, 25-3), they marched ahead to win the finals against Wilson college (25-23, 25-16).

They say that the receipe of victory has lots of hard work, plenty of determination, spoonful of inspiration and a pinch of luck. The SPCE Volleyball team will surely stir all these up to bring home the wonderful aroma of success and taste of victory.

FOOTBALL

'Football' was an alienated word in SPCE. Cricket being a passion, a religion to many, football is hardly heard about, forget being played. The general attitude of the college team for the 'Inter-engineering football tournament was subdued and relaxed. However, it was not late before we realised that the attitude had miles to go and still miles to prosper.

The team was sceptical about the match against VESIT. The goal scored via a free kick was dis-



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and so the match hung in balance at the halfway stage. After the resumption the team got themselves together and there was no looking back. The team discovered our attacking stride, striking relentlessly, till finally the team's diligence paid off minutes before the final whistle. Moving ahead with a score of 2-0 the team took NYSS Datta Meghe. The team won the energy-sapping contest with an elegant 2-0 score. The next match against VD Patil though ended in a tie, the team marched into quarter with 2 wins behind them. This match against TSEC had a nail-biting finish with our team scoring a solitary goal to reach the semis. Now the team faced the defending champions Saboo Siddik Eng. College. The match balanced at 1-1 went into a tiebreaker where we won the penalty shootout 3-2. The final defeat against Fr Angnel was a disappointing finish to such an action-packing, nerve wrecking, thrilling tournament. Although our team was underdog throughout the tournament and looked woefully short of star power, it was a truly remarkable turnaround for a team, which earlier had difficulty winning a single game. That we had 6 different goal scorers in 6 different matches, bears testimony that each of the team members was ready to give his 110% for the team cause.

THE KINGS OF THE BOARD

And if volleyball and football is not all, SPCE has it's own V. Anands and Kasparovs of the black and white battlefield.

It is often said that all talent needs is that extra nudge and support to turn the difficulties and obstacles into milestones. So, despite it being the last day for registering for inter-college chess, thanks to Prof. Chavan and Prof. Mhaiskar our college got an entry into the tournament, the last of 92 participating colleges.

The format of the tournament was based on the international chess Olympiad.

The geniuses of SPCE team were:

1. Piyush Mukarjee (BE Civil)
2. Nedar Patwardhan (TE Mech)
3. Rahul Pendse (TE Civil)
4. Lokesh Padhye (BE Civil)

The tournament was in Swiss League format with the score of the team cumulated, so that only the top 4 teams of each group would proceed to the finals. However, with the vivas starting at us in the face the team had to miss out on a few games, in the initial rounds. But, with the player's will to win, inspite of having missed 8 games, SPCE scored 18.5 on 20 points, standing 3rd in the group. Not only this, SPCE also had the highest winning percentage of all 92 participating teams. The fact that will make all SPCEites proud is that our college happens to be the only engineering college in top 25 teams. Defeating KJ Somaiya and MK Sanghvi SPCE finished with a 5th rank over all.

'Every cloud has a silver lining', but in our case it had a golden one. Lokesh Padhye won an individual gold medal as best player on table no. 4. They say nothing succeeds like success. So the difficulties and obstacles that we faced coupled with the taste of victory, only give us inspiration to win the tournament the coming year.

The girls badminton team once again won the inter-engineering tournament held at Somaiya College extending their winning streak.

The following are the details of the inter-class tournaments:

The inter-class sports events kicked off with ring football. BE Civil emerged the champions beating BE Mech and TE Mech in finals. Inter-class Box Cricket was next on the charts. TE Civil emerged the deserving champions beating SE Elec.

Come January, S.P.C.E is abuzz with preliminaries for SPACE. However this time the scene was different. The second week of January saw celebration of TECHNOBREAK MILLENNIUM.

Events like chess, carrom and TT were organised not only for boys but also for girls. We are e tremely delighted to state that gauging from the response and the quality of play, we have immens sporting talent even on the ladies' side. The highlight of Technobreak however remained the 'TUG OF-WAR'; which was a new event in SPCE. The final was a real tough one between TE Com and their juniors SE Comp. The Arnold's and Sunil Shetty's from TE Comp sweated it out to tak away the title of champions.

Cricket is a religion in SPCE. It's a passion, playing it a ritual and winning it is a dream. SPAC 2001 was followed by inter-class cricket tournament played on Bhavan's ground. The dark horse o tournament SE IT upset BE Comp and hot favourites TE Civil and TE Etrx. SE IT were to pla against SE Elec who had reached finals beating BE Mech, SE Mech and SE Civil. In final, SE Ele took away the match with a towering score of 73 off 8 overs and bowled out SE IT for a meagre 40

Well, not to forget, inter-class Volleyball Tournament. Having watched our boys toss the ba across the net we can say that Volleyball is soon becoming the pulse of SPCE. The teams wer as follows:

Group A : TE Mech played against FE Etrx and SE Etrx beating them comfortably to reac the semis.

Group B : SE Elec took on SE IT and BE Mech to reach the semis. The match between S Elec and SE IT was worth a watch. It seemed as if the match was worth a watch It seemed as if the match was slipping out from SE Elec. But they got their act togethe and scrapped through.

Group C : This group of upsets saw the shocking win of TE Etrx over TE Comp. TE Etrx los first set but made a dramatic comeback pulling off the 2nd set from match poin to win the 3rd set. However they failed to beat BE Etrx who played good volleyba to reach the semis.

Group D : BE Civil pushed ahead beating TE Civil and BE Comp.

The first semi-final was a cakewalk for TE Mech to reach the finals. The second semi-finals saw a tough fight between BE Civil and BE Etrx with BE Civil just managing to get through to the finals. IT is said that history repeats itself and so the finals saw the same teams as last year: TE Mech and BE Civil against one another. The defending champions TE Mech retained the title beating BE Civil once again to prove their supremacy.

If you think that sports in SPCE is a man's dominion, sorry to say that you are grossly mistaken The ladies were no behind in sports. The year saw a comeback of ladies cricket with a bang, and thanks to Aparna and Smitha the girls could also play throwball; introduced in SPCE this year

They say that teamwork divides the task and doubles the success. So, this wonderful 'sporty' year would not have been possible without help from our colleagues and friends. We would like to thank Sunil and Sushant (SE Elec), Subir (TE Comp), Chinar (TE Mech), Zubin (BE Civil), Nitin and Vijay (TE Etrx), Ganesh (TE Civil) and Keur (BE Mech). We would also like to thank Leena for her valuable help in compilation of the report.

We would also like to thank Prof. R.M.Joshi, Prof. Thampi, Prof. Barot and Prof. Maurya. It is often said: Experience is what you get when you are expecting something else. What we expected being the SS of SPCE was much of work, but what we experienced was much, much more of fun, joy, support and happiness. It has been wonderful being with such enthusiastic, fun loving always-there-to-help people. Someday, we shall leave the shores of SPCE behind to discover new oceans, cross new horizons but what we learned, felt, did at SPCE will always have a very special place in our hearts. No doubt, SPCE has become an indispensable part of our personalities.

PRADEEP SHARMA
Sports Secretary (Outdoors)
Students' Council

KAUSHIK GUNE
Sports Secretary (Indoors)
Students' Council

LADIES' REPRESENTATIVES' REPORT





To us, this is not just a report but also an opportunity to reminisce on this glorious year and give a formal thanks to all those without whom the work, for which we will take credit in the coming paragraphs, would not be possible .

We feel like it was just yesterday when we were inducted in to the Gymkhana Committee 2000-2001 as the ladies' representatives. When we assumed office, preparations for Techno break Millenium were in full swing. We had an efficient reception in place for this inter-class cultural festival which is the dress rehearsal for the mega SPACE 2001. Reception for SPACE 2001 was in itself a big challenge because it not only included Central Reception and event reception but also the formal reception to be accorded to Ustad Zakir Hussain and Ustad Sultan Khan whose classical recital was the Zenith of SPACE 2001.

We received a lot of compliments on the effective handling of reception at SPACE 2001 but their rightful recipients are all the people in reception who did a fantastic job. Thanks are also due to The Administration Department, Technical Department, Volunteer Management and the Chief Events' Co-ordinator, Subramanath Ramaswamy who supported us right from the word 'go'. Hats off to Rajesh Acharya, Vishal Kalkad and the core committee of SPACE! We also assisted Mrs. Madhavi Gokhale to organise the Annual Day function.

Sports for girls in SPCE has its own special charm. During Technobreak Millenium, we had inter-class table tennis, carrom and chess tournaments for which we got an amazing response. The winners are as follows:

TABLE TENNIS : 1) Gauri Prakash - TE (IT) 2) Aruna Gautam - SE (Elec)

CARROM : 1) Tejal Raut/Wrushali Patil - TE (Elec) 2) Namita Uparkar/Prashanti Shetty - SE (Civil)

CHESS : 1) Tejal Raut - TE (Elec) 2) Neena Maldikar - TE (Comp)
3) Chetna Wade - SE (Comp) 3) Pallavi Wakankar - SE (Comp)

After SPACE 2001, we held inter-class throwball and cricket tournaments for girls which had enthusiastic participation from all classes. Throwball, held for the first time in SPCE, was won by the agile combination of SE COMPUTERS and SE CIVIL while cricket was won by the deft combination of TE COMPUTERS and TE CIVIL. The enthusiasm and co-operation of all the girls in SPCE was overwhelming. We could conduct the sports' tournaments successfully thanks to Kaushik Gune- Indoor sports' secretary and Pradeep Sharma - Outdoor sports' secretary.

Also, we have put forth recommendations for a mirror in the LCR and a first aid box for the girls which will be implemented on approval.

All this would not have been possible without the whole-hearted support of Prof. R.M. Joshi, Vice-President of the Gymkhana Committee.

Our heartfelt thanks to Mrs. Madhavi Gokhale for being there to guide us through thick and thin.

Finally, it is our privilege to have been part of the Gymkhana Committee 2000-2001. We have made many new friends and have learned a lot from the past year. It has been an experience of a lifetime!

We wish luck to our successors!

SMITHA KUTTY
Ladies' Representative
Student's Council

APARNASRI SASTRY
Ladies' Representative
Student's Council

BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL COLLEGE OF ENGINEERING

MUNSHI NAGAR, ANDHERI (W), MUMBAI- 58.

PRIZE WINNERS (1999-2000)

KULPATI'S GOLD MEDAL

1) **Miss Sakhalkar Sucheta N.** — For securing First Rank in First Attempt amongst studen of this college and First Class with Distinction B.E.(Civil) examination held in May 2000.

2) **Shri Dey Shantanu Subhas (2nd in University)** — For securing First Rank in First Attempt amongst studen of this college and First Class with Distinction B.E.(Mech.) examination held in May 2000.

3) **Shri Madhu Nilesh (1st in University)** — For securing First Rank in First Attempt amongst studen of this college and First Class with Distinction in B.E (Elect.) examination held in May 2000.

4) **Shri Digankar Asif Shaukatali (12th in University)** — For securing First Rank in First Attempt amongst studen of this college and First Class with Distinction in B.E (Electronics) examination held in May 2000.

5) **Miss Pereira Dlaila Emelyan (3rd in University)** — For securing First Rank in First Attempt amongst studen of this college and First Class with Distinction in B.E (Computer) examination held in May 2000.

KULPATI'S SILVER MEDAL

1) **Shri Shinde Pravin V.** — For securing Second Rank in First Attempt among students of this college and First Class with Distinctio in B.E. (Civil) examination held in May 2000.

2) **Shri Patankar Pradnyesh B. (4th in University)** — For securing Second Rank in First Attempt among students of this college and First Class with Distinctio in B.E. (Mech.) examination held in May 2000.

3) **Miss Pradhnya Hegiste (3rd in University)** — For securing Second Rank in First Attempt among students of this college and First Class with Distinctio in B.E. (Elect.) examination held in May 2000.

4) **Shri Sakpal Sudarshan R.** — For securing Second Rank in First Attempt among student of this college and First class with Distinction i B.E. (Electronics) examination held in May 2000.

5) **Shri Bhandari Arun N. (6th in University)** — For securing Second Rank in First Attempt among students of this college and First Class with Distinctio in B.E. (Computer) examination held in May 2000.

Dr. PRANLAL PATEL FOUNDATION PRIZE OF Rs. 500/- EACH

Shri Bhat Ketan Anant — Has been awarded Dr. Pranlal Patel Prize for securing the highest percentage of marks in F.E. (Mech.) examination at the first attempt during 1999-2000.

Shri Aphale Chinar R. — Has been awarded Dr. Pranlal Patel Prize for securing the highest percentage of marks in S.E. (Mech.) examination at the first attempt during 1999-2000.

Shri Shah Purav B. — Has been awarded Dr. Pranlal Patel Prize for securing the highest percentage of marks in T.E. (Mech.) examination at the first attempt during 1999-2000.

SHRI JAYANTI SATYANARAYANA PRIZE OF Rs. 50/-

Shri Chamaria Balram S. — For securing Highest percentage of marks in subject "Structural Analysis" Sem. V at the T.E. (Civil) examination held in December 1999.

SHRI MARATHE MEMORIAL PRIZE OF Rs. 500/- EACH

Shri P. Amit Kumar K. (Comp) — For securing Highest percentage of marks in F.E. Sem. I & II in the subject "Engineering Mechanics" Examination held in 1999-2000.

Shri Naik Abhijit Shriram (Mech) — For securing Highest percentage of marks in S.E. (Civil & Mech.) Sem. III in the subject of "Strength of Material" examination held in November 1999.

BENGAL ENGINEERING COLLEGE ALUMNI ASSOCIATION (BOMBAY BRANCH) TRUST SCHOLARSHIPS OF Rs. 1500/- EACH

Shri Chamaria Balram S. — For securing Highest marks in First Attempt amongst students of this college of TE (Civil) examination held in May 2000.

Shri Shah Purav Bharat — For securing Highest marks in First Attempt amongst students of this college of TE (Mech.) examination held in May 2000.

Miss Das Debosmita — For securing Highest marks in First Attempt amongst students of this college of TE (Elect.) examination held in May 2000.

INDIAN WATER WORK ASSOCIATION (BOMBAY CENTRE) CASH PRIZE OF Rs. 40

1) **Shri Pravin Shinde V.** — For securing Highest percentage of marks in subj "Environmental Engg." BE (Civil) Sem VII examinat held in December 1999.

Dr. G. A. MHASKAR & Dr. B. M. JOSHI PRIZE OF Rs. 130/-

1) **Shri Madhu Nilesh M.** — For securing 1st Rank in B.E. (Elect.) class.

JADHAVPUR UNIVERSITY ALUMNI ASSOCIATION (BOMBAY BRANCH) TRUST SCHOLARSHIPS OF Rs. 1000/- EACH.

1) **Shri Chamaria Balram S.** — For securing Highest marks in First Attempt among students of this college of TE (Civil) examination he in May 2000.

2) **Shri Shah Purav Bharat** — For securing Highest marks in First Attempt among students of this college of TE (Mech.) examination he in May 2000.

3) **Miss Das Debosmita** — For securing Highest marks in First Attempt among students of this college of TE (Elect.) examination he in May 2000.

SHRI PRUTHVISH NARAYANDAS KILLAWALLA PRIZE OF Rs. 100/- EACH

1) **Shri Iyer Shriram C.** — For securing Highest marks in First attempt amongst th students of this college at FE examination held in May 200 and joined SE (Elect.) in the year 2000-2001.

2) **Shri Shetty Niranjan A.** — For securing Highest marks in First attempt amongst th students of this college at SE (Elect.) examination held in Ma 2000 and joined TE (Elect.) in the year 2000-2001.

3) **Miss Das Debosmita A.** — For securing Highest marks in First attempt amongst th students of this college at TE (Elect.) examination held in Ma 2000 and joined B. E. (Elect.) in the year 2000-2001.

4) **Shri Madhu Nilesh M.** — For securing Highest marks in First attempt amongst the students of this college at B. E. (Elect.) examination held i May 2000.

SHRIPAD RAO DUBHASHI PRIZE OF Rs. 75/-

1) **Shri Gharat Prasad M.** — For securing highest marks amongst our successful college students in the subject of "Building Design & Drawing" in T.E (Civil) Sem. V examination held in November 1999.

SMT. AHILYABAI TEMBE PRIZE OF RS. 100/-

Shri Gala Niyant &
Miss Nabarupa Banerjee
(Shared equally)

For standing First in the subject of "Design & Drawing of Concrete Structures" in B.E. (Civil) Sem. VIII examination held in May 2000.

SHRI R.N. JOSHI PRIZE OF Rs. 100/-

Miss Shobana Raghavan

Has been awarded Prof. R.N. Joshi Prize for securing highest marks in Sem. VII & Sem. VIII (Civil) taken together and passing separately during 1999-2000.

MERIT PRIZE ON THE BASIS OF MERIT IN THE PRECEDING EXAMINATION HELD IN MAY/JUNE 2000

B.E. CLASS
1) Shri P. Amit Kumar Krishakumar (Comp)
2) Shri Kannarath Jagdip (Computer)
3) Shri Tankiwala Moiz (Info. Tech.)

S.E. CIVIL
1) Shri Kudva Upendra Kashinath
2) Shri Patil Sachin Balasheb
3) Shri Shah Chirag Devendra

S.E. MECH.
1) Shri Aphale Chinar Ramchandra
2) Shri Naik Abhijit Shivajirao
3) Shri Ramesh Chandrashekharan

S.E. ELECT.
1) Shri Shetty Niranjan Achutha
2) Miss Jenie Joseph
3) Shri Vishwanath Ramaswamy

S.E. ETRX.
1) Shri Levis Joyston Jude Alexander
2) Shri Roy Choudhury Arojit Sunit
3) Shri Rodrigues Rahul Richard

S.E. COMP.
1) Shri Anup Surendran
2) Shri Gulavani Bhargav Subhash
3) Shri Joshi Nimish Amar

S.E. (Infor. Tech.)
1) Miss Shah Zarana Bhupendra
2) Miss Bawa Sukaina Maqbool
3) Shri Chavan Viraj Sudhir

T.E. CIVIL
1) Shri Chamaria Balram Satyanarayan
2) Shri Athavale Amod Dhananjaya
3) Shri Mukherjee Piyush Debashssh

T.E. MECH.
1) Shri Shah Purav Bharat
2) Shri Pandey Kapil Pradeep
3) Shri Rixon Raju Mathew

T.E. ELECT.	1) Miss Das Debosmita A. 2) Shri Iyer Deepak Venugopal 3) Shri Shetty Harish Balkrishna
T.E. ELECTRONICS	1) Shri Gala Hitesh Shamji 2) Shri Shah Himanshu Chandrakant 3) Shri Dighe Saurabh Shirish
T.E. COMPUTERS	1) Shri Karthik Kesavan 2) Shri Srinivasan Vitthal 3) Miss Mavinkurve Purnima Maruti 3) Miss Ravi Janani Ravi
B.E. CIVIL	1) Miss Shobana Raghavan 2) Shri Koli Girish Harischandra 3) Miss Kripa Sarangpani
B.E. MECH.	1) Shri Dey Shantanu Subhash 2) Shri Solanki Bhavin Pravin 3) Shri Patankar Pradnyesh Bhalchandra
B.E. ELECT.	1) Shri Madhu Nilesh M. 2) Miss Hegiste Pradnya Vijay 3) Shri Gujrathi Amit S.
B.E. ELECTRONICS	1) Shri Digankar Aasif Shaukat Ali 2) Shri Sakpal Sudarshan Ramchandra 3) Shri Kamat Vithal Ganesh
B.E. COMPUTERS	1) Miss Pereira D'Laila Emelyan 2) Shri Bhandari Arun Nathmal 3) Miss Desai Devina Praful

MERIT PRIZE OF Rs.100/- EACH (OR BOOKS WORTH THE AMOUNT) AWARD BY THE DEPARTMENT OF STRUCTURAL ENGG. TO THE STUDENTS OBTAIN THE FIRST CLASS AND GETTING MAXIMUM NUMBER OF MARKS IN ALL STR TURAL SUBJECTS TAKEN TOGETHER AT THE F.E.(CIVIL), SE (CIVIL), TE (CI & BE (CIVIL) EXAMINATION HELD IN THE YEAR 1999-2000.

1) **Miss Kadam Snehal**	F.E. (Civil)
2) **Miss Shah Vaishali**	S.E. (Civil)
3) **Shri Athavale Amod Dhananjay**	T.E. (Civil)
4) **Shri Dubey Manoj**	B.E. (Civil)
5) **Miss Nerurkar Sharvari Anand** F.E. (COMPUTERS)	COMMUNICATION SKILL PRIZE AWARDED B STR. DEPT. FOR F.E. CLASS

From the Vice President's Desk :

I have immense pleasure in presenting this report for our college magazine **"Disha 2001".** It was great experience to work along with the students and my other colleagues to make all the programs a big success. I am sure that this would not have been possible without the whole-hearted support and full co-operation from the students and others.

We had organized various activities in Sports, Cultural Programs, Inter-collegiate activities etc. in which the students participated enthusiastically.

The following new trends/major activities were started during the year :

- Appointment of a Sports Secretary.
- Development of the sports ground near the workshop.
- Introducing the Outdoor games for the Girl students.
- Organizing the Pro-nite Zakir Hussain at the Bhavan's ground.
- Encouraging students for presenting the papers at different Inter collegiate festivals at the national level.
- Introduction of the Technical Section in the magazine.
- Cover Page design competition for the **'DISHA 2001'**

I appreciate the efforts put in by the students in all the activities. Their hard-work, creative abilities and team spirit to make the programs successful have been kept on records. It was a great experience to share my thoughts and opinions with the future engineer's and guiding them in the proper manner to achieve the goals. I am sure that the active participation of the volunteers in organizing the programs and working with a team spirit showing their leadership skills will definitely help them in improving their personality and help them through out their life.

I thank the management and the Principal Dr. R. S. Mate for their support for making the funds available for all the programs and the other facilities provided in the college during the program. I also take this opportunity to thank all my other colleagues and my students. It would be unfair on my part to name a few colleagues or students for their efforts put in. Since it was a team work in which everybody contributed as per his or her own capabilities, naming a few would be like doing un-justice to the others who were working behind the screen.

I wish all the students a very bright future and a properous future life.

Dear students, a few **golden words** for you :-

- "Knowing the difference between right and wrong is one of the life's great accomplishments"
- "Use achievements of the past to help you to feel good about the present and the future."
- "Honest self-evaluation should be a frequent and continous exercise"
- "Try to learn from other's mistakes."

Prof. R. M. Joshi

DREAMS



English Section

EDITORIAL





Dreams... What fantastic images does this word conjure! An ephemeral world filled with infinite possibilities. A seed that germinates into reality. A stage on which, our most hidden emotions perform.

Dreams signify our ideals, our aspirations and our feelings reflected during the wake le moments of our existence. The articles in this section amply reflect the dreams of the SPC'it Be it the critical analysis of 'IT Superpower?' or the digital humour of 'DIGITAL sh-OL the natural beauty reflected in 'By the seashore' or the nostalgia of ' A dream come tru the mysteries presented in 'The truth is out here' or the cruel reality of 'The killer quak the feelings . the aspirations and the harsh realities of life- all find an echo in these page

Sorting out from the sea of articles we received was a daunting task. The efforts that into each and every piece-the theme, the building of a thought, procrastinations over t right word and the finishing touches to an original masterpiece-were not unknown to u That's probably when we realized the pejorative connotations of the word 'editor'.

Our basic goal, while editing, was to present a balance of humour, information, philosop and musings. We hope to have done ample justice to the creative talent that flourish amidst us. As for those whose articles and poems that didn't make it in print, "Never gi up! Never! Never! Never!", to quote Sir Winston Churchill.

There are some excellent illustrations in this section, which bring the literature to life. A for the crossword buffs-there is a cryptic crossword as well. And above all, there's also th exclusive tete-a-tete with Ustad Zakir Hussain - a dream come true, so to say.

The underlying purpose of this section has been to serve as a medium of expression fo the dreams of SPC'ites. And it was our dream as editors to make sure that the most popul segment of DISHA succeeded in its purpose with elan. Editing this section has been a experience, which we shall cherish for the rest of our lives. We hope that you will enjo reading it as much as we enjoyed making it.

Lastly , for those who aspire to dream,

'Hold fast to your dreams for if dreams die,
Life is a broken winged bird that cannot fly'

NIRANJAN SHETTY
T.E. (Electrical)

NEERAJ SONALKA
T.E. (Mechanical)

JEETO CHAPPAR PHADKE

Mrs. Madhavi Gokhale *(Lecturer: Communication Skills)*

No. Don't get me wrong. This is not another treatise on whether game-shows are a psychologically conducive or detrimental influence on the oh-so-susceptible Indian audience. Far from it. It was just a chance remark made by a friend the other day that inspired the title and the train of thought that inevitably starts chugging away. She said "Oh, do you mean to say she earned **only** three lakh twenty thousand?" This set me thinking. An amount which a few months ago would have been expensive manna from heaven is now just a pittance compared to the elusive one crore!

Money will it never be enough? In four-five years from now, perhaps the booty may rise to 2 crores... or ten. And maybe my friend will end up saying – "Oh, did she earn only one crore? What a pity!" Come to think of it – very few among us have seen money like this before; have ever hit life's jackpots, so to say. Have ever been awarded glittering titles. Or crowned queens or kings of beauty. And yet. And yet...

Life is full of free gifts (no conditions apply) and God is a Poor Businessman. While coming back from a hill-station, we simply had to stop the car at a cascading waterfall. We filled up bottles of the pure, icy-cold fresh spring-water. If God had done his MBA. He would have bottled it and marketed it as Spring Cola. But it was free. My son declared that he would never drink any other water again.

Look around you with eager eyes and you will see glimpses of His Game-show everywhere. And you are invited to win. Without answering questions. Without losing anything in the bargain. Without taking a risk. See these gifts.... in the toothless grin of a baby. The crazy fiery red of a gulmohar. The twinkling eyes of a friend. The cavorting capers of a puppy.

Listen to His Gentle words in the chiming of a church bell. The Strains of a guitar. The giggle of a child. The patter of rain.

Feel His Treasures. In the cool sand beneath your feet. Your Mother's hand on your fevered forehead. The snuggly warmth of your favourite blanket. A mountain breeze on your face.

Your options are A. Enjoy B. Ignore C. Forget D. Overlook.

What would you choose?

It doesn't take a bank balance to watch a sunset. Or a five-figure salary to look at the stars. Maybe we do miss out on Life's Grand Moments, you and I. No Nobel Prizes; no front-page news. No paparazzi. But let us not for a moment forget the eternal moments of untrained joy. It only requires you to blow away that obstinate chappar you have clamped on your soul to receive these. There are so many to go round. With very few takers. Lock kya Jee?

USTAD ZAKIR HUSSAIN-IN CONVERSATIO

Zakir Hussain is today appreciated both in the field of percussion and in the world of musi large as an international phenomenon. A classical tabla virtuoso of the highest order, his consiste brilliant and exciting performances have not only established him as a national treasure, but gai him fame all over the world for his many accomplishments.

The favorite accompanist for many of India's greatest classical musicians and dancers, from Akbar Khan and Ravi Shankar to Birju Maharaj and Shivkumar Sharma, he has not let (his) amaz talent rest there. His playing is marked by uncanny intuition and masterful improvisational dexte founded in formidable knowledge and study.

In 1988, he became the youngest percussionist to ever be awarded the title "Padma Shri". In A 1991, he was presented with the Sangeet Natak Akademi Award by the president of India, mak him one of the youngest musicians to receive this recognition. In 1992, Planet Drum, an albu co-created and produced by Zakir and Mickey Hart, was awarded a Grammy for Best World Mu Album, the Downbeat Critics Poll for Best World Beat Album and the NARM Indie Best Se Award for World Music Recording.

In 1992, he also launched Moment! Records which features original works and collaborations the field of contemporary world music, as well as digitally recorded live concert performances great masters of the classical music of India. The label presents Zakir's own world percussion ensemb The Rhythm Experience. His compositional skills can also be heard on soundtracks for the fil 'In Custody', Ismail Merchant's directorial debut, and 'Little Buddha' by Bernardo Bertolucci, which Zakir composed, performed and was the Indian music advisor.

We, at DISHA, aspired to have a tete-a-tete with the maestro himself after his performance at SPA 2001. His tight schedule, made an interview impossible but he did comply to answer a single questio which is presented below exclusively for all of us at SPCE. We also managed to get a messa from him for all of us at SPCE as also his autograph on a photocopy of the superlative charco sketch of Ustad Zakir Hussain and the late Ustad Allarakha Khan done by Sujay (the original co was presented to the Ustad).

DISHA: Sir, you normally don't perform for college festivals. What was it that prompted you come to SPCE.

USTAD ZAKIR HUSSAIN : No, it is not true. I always perform for college programmes. F many years I, through Spic-Makay performed in college programs everywhere all over India. I mea I was one of the first ones to perform for Spic-Makay in the 70's & then it got through the poi when I had done the circuit many many times & then I decided that now it was time for othe musicians to do it & I thought that if we stay in the concert halls we would be able to pull in th college students into the concert halls, which will then help the promoters, organizers of the conce to be able to afford to do the concerts. If we keep performing in colleges, we used to do it fo free. Then the students never came to the concert halls because they used to get all the artist for free in the college..why go to the auditoriums!. So it became an important issue for musician , who could pull in a crowd to stay more into the auditoriums and less into the college, just s that the organizers would have some support. Because the organizers were failing. They were..yo know..losing tons of money because , you know, everybody used to flock to the colleges. The used to listen to the artistes for free. So it became like we had to support them. So that was on of the reasons why I cut down my college concerts less. But I do in a year maybe 3 or 4.



I am proud that it makes us a unique people in the world.

DIGITAL sh-OLE

SHRIJIT R. PLAPPAL
FE (IT)

J++ and VIru were the best of friends. However they were notorious for being CPU cycle stea and were jailed. They had a warden called Pentium (Produces Erroneous Numbers Through Inco Understanding of Mathematics) who had some problems with his floating point arithmetic.

They were sought out by ThAWKur who has them saved in his history folder, for they had o helped him fight off BAD SECTORs in a train.

ThAWKur needed them because he had a grudge against Babbage C-ing, a very bad sector. Babb was the SuperUser of the BandIT gang. He had once truncated ThAWKur's Arm processors. left ThAwkur with a vengeance to terminate Babbage C-ing.

Babbage C-ing was so notorious that the mere calling of his procedurce-name by motherboa was enough to send misbehaving child processes into Suspend Mode even 50 K's away. He Side Kicks® one of whom was SAMBAR's really good server. He kept count of the numbe ADMINs though Babbage C-ing fired all of them anyway.

ThAWKur brought J++ and VIru to the Integrated Development Enviroment of RAMgarh wh was where all the program execution was to take place. Ramgarh was inhabited by a num of quirky CHARacters. One of them was BUSanti who along with her proprietory equine runt engine DUNnoo ran a successful transport business. VIru took a real fancy to BUSanti. The in the code was her CHARchi who was BIOS-ed against him and wouldn't let this program comp However, VIru managed to patch CHARchi's FLASH-bios through intelligent high level langua delivered from the top of a STACK.

J++ was very impressed by the non sound enabled young WI(N)DOW who was ThAWK daughterboard. He often synthesised MIDI music, especially instrument 117, the mouth org which acted as a vectored sustem call to WI(N)DOW.

BUSanti was program traced by upto-no-good Bad Sectors. But the fast running equine Eng DUNNOO managed to prevent her code getting corrupted.

However, BUSanti's code was branched to the root node of Babbage C-ing by the Sardar hims VIru executed some JMP statements and managed to recover BUSanti's data from the bad secto While they were NETeSCAPING along the bridge, J++ had the brilliant idea of acting as a Firew J++ always carried a Pseudo Random Number Generator (coin 2000), using which he genera decision statements. Unfortunately, J++'s system programming was irrecoverably overwritten Babbage C-ing's LOGICAL BOMBS.

Upon returning, VIru saw J++'s mangled and fragmented source and decided then and th to encrypt Babbage. He set out in his chase and eventually, setting breakpoints in his path, BREAK his RUN. ThAWKur RESTORED all the memories he had BACKUPed. Using footwear that w decidedly hardware with Embedded OS (nails ver 1.00), he BUGSMASHED Babbage C-ing. Th ends the memory block-buster ShOLE.

PARTIAL GLOSSARY

1. OLE-Object Linking and Embedding
2. AWK - A Unix utility
3. DUN - Dialup Networking
4. BIOS - Basic Input Output System
5. MIDI - Musical Instrument Digital Interface (techn logy to playback predefined musical instrumen
6. VI- A Unix text editor
7. ARM - A new precessor for embedded comput
8. FLASH BIOS - Programmable Bios.

Eyes



Priyanka R. Sunder
TE (Computers)

Eyes that see it all
wide open in shock
Or through half-shut lids
They mouth the pictures
A dreadful image mirroring itself
On the tiny black.

Eyes that take you in trance
Draw you into unknown depths.
Light a smile on you
Reflect the sparkle of fire.
Glimmer in silver
Like those tiny specks above us in dark

Eyes saline with pain
With unhealing hurts and sometimes in joy.
Hold in the drops that just trickle
Let down these that cease to dry
Beauty is said to be in those of the beholder
Who reflects it through eyes.

It's mind that relates and heart that feels.
But its eyes that co-relate
Your thoughts and your feelings
Takes more than a look
To read all the unsaid words
That stay on until that blink
So look in for a while
And get drawn!

IT SUPERPOWER?

MANIK PAT
SE (I.T.)

A whole lot of people, and especially the politicians in India, seem to have convinced themsel that India is an It superpower or just about to become one. But, with no major world-class te nology/product originating from India, the truth is that India is far from being an IT super pow The fact is that it takes more than just exporting people to become an IT superpower. Busines need to do more than just race against each other to pick up the brightest students from the camp

A lot of investment in basic and fundamental research is necessary to build a world-class Informat Technology industry. Inventions like the transistor, the Windows user interface, and the hyper interface of the World Wide Web have come from research labs run by universities and business These new technologies have metamorphosed into huge business today, and are the source much of the wealth created in the United States (the one country that can truly claim to be Information technology super power).

Sadly, the amount of research being done in our institutions and research labs is near zero. T government owns most of the research laboratories in India, where most people come for jo not because they want to do research. I'd rather those universities and colleges own these la After all, one of the biggest blockbuster pieces of software in recent times-the web browser- born in a university lab. Bureaucrats at government research labs are more interested in not do something wrong. So they end up doing nothing at all. Because the surest way to not mak mistake is to do nothing at all.

Whereas these government laboratories are well funded, our schools, colleges and universities a inadequately funded. Most engineering colleges are grossly ill equipped. We need a lot more mor to go into schools and colleges to support research and development work. How can this be remedie Rather than pay a high fee to the training institutes, who put more money into swanky offi and slick marketing campaigns than into learning, I'd have the regular engineering colleges cha a high fee. Let colleges charge whatever fee they feel is necessary to provide good education. G students concessions (or support them by scholarships) based on their economic positions. Stude who can afford to pay should pay. (Now that most people have to file their income tax retu this should be easily verifiable.)

Universities and colleges could also run corporate programs and courses (as in USA & Europ where they can make their money and subsidize the education for the students.

We also need to rate the colleges by their performance. If there can be rating agencies for finan companies why there should not be a regulating and rating agencies for education? More so, becau this is where the seeds of all future wealth creation is sown. Rating the quality of education provid by the colleges will also allow funds from government and businesses to flow to the institutio doing good work.

While it will take a lot of money and time to set up world class research labs like Xerox parc a MIT's media labs; as a start, businesses can begin to initiate, fund and support students proje and research work at colleges.

And lastly you don't become a superpower by excelling in only one sphere of human knowle and activity. All this dream of becoming a super power can come to dust if we are unable to tac problems in food production and distribution, basic education, health care, housing, power a transportation. Information technology can provide the lead but we need to pick our act up other areas of knowledge and activity as well.

A DREAM COME TRUE

Karthik Ranganathan *BE (Electronics)*
Utpal Aradhye *BE (Computers)*
Siddharth Nashiney *BE (Electrical)*

happened 4 years ago but our memory is as fresh as ever, as we recall our entire class rejoicing the entry of the newly elected panel in our class (largely because they had invaded the chemistry lecture to make an announcement) and that was to introduce "SPACE" to us. As we vividly recall their words "SPACE is our college festival, our identity: a festival just on the lines of Malhar. But we hope that 4 years later any Xaverite who stands on this platform shall say that Malhar is a fest on the lines of SPACE".

And from then on SPACE was more than a fest to us : it was religion, a passion, an obsession. And the response was reflected in the number of FE's registered as volunteers: almost twice the number required. For the first time SPACE (in 98) was to be held for three days and the first ever theme in SPCE - with Pandit Satish Vyas on the santoor. Space had reached a new level, a new class, not only because of the nite but also because of the efficient functioning of every event. It was probably the only festival in which each of the 38 events started on time. But the most memorable event of SPACE 98 was the post-SPACE thanks giving speech. As each of the 40-committee members was introduced, each organizer profusely thanked, each volunteer's contribution lauded-a new light dawned: it required more than a committee to build SPACE. It was the cumulative effort of a huge team, a workforce of about 350 SPC'ites. An indelible imprint was engraved on our minds-the significance of teamwork. And of course, post SPACE blues (the results, ugh! And the exams, moan!) had to be faced.

But it wasn't for too long. August came soon and with it came plans for Technobreak 98 (the dress rehearsal for Space 99). All SE's now enthusiastically warmed up to the task and began churning out ideas for new events. But if SPACE 98 was remembered for its nouveau events, the hallmark of SPACE 99 was the prizes. With a whopping sum of Rs. 2.1 lakhs given as cash prizes, one can't help remembering the gleeful faces of each prize winner nor can one ever forget the Lucky Bit. True to the theme it was a Total Knock Out.'

And then followed the most gruesome part. The murky corridors and cumbersome negotiations, bargains, compromises and agreements. But all's well that ends well. Techno 99 had set a new precedent. For the first time there was at least one core committee member from every T.E. class. But there was hardly the time to relax. The formation of the committee was just the beginning: the task was yet to begin.

The idea now was to make SPACE 'cooler, wackier and freakier'. Ambitious plans and grand dreams... and we were happy to see that the cyberciti and the carnival village were runaway hits. With computerised buzzers, new projectors and screens, SPACE 2000 paved the way for complete computerization in the near future. But an unfinished dream still rested in our minds : a pronite on the Bhavans ground. Despite carefully drawnout plans and permission to use the ground we were unable to garner the requisite funds.

'Failures are but stepping stones to success' and there could be no better manifestation of this statement than seeing this unfinished dream happen just a year later. Haunted by 'The Spirits of the past', the SPACE 2001 crew toiled ceaselessly to ensure that all of us could see a "Zakir Hussain Night" on the Bhavan's ground. The ballroom dancing workshop, the rock show, smashing literary events, the glittering decorations... the list is endless. As contingent after contingent described 'SPACE 2001' as the best fest they had attended, a small voice in our hearts ask 'Will Malhar be on the lines of Space next year?'

GO AUSSIES GO !

Siddhesh Kajarekar, Pranil Naik – BE (Mechan

August 1986. Chidambaram Stadium, Madras. India needs a run to win. Australia – a wicke tie. Creg Mathews wearing a baggy green cap bowls perhaps the most priceless delivery of career to Maninder Singh. The umpire's finger goes up. Maninder Singh : lbw Creg Mathews; the second ever tied test in the history of the game ended.

May 1999. Oval, London. Quarter Final of ICC World Cup. India needs 283 to win and is perh in a must win condition for qualifying for the semis and are four down for seventeen beca of fiery display of bowling by Mcgrath and Fleming.
India lost by seventy eight runs.

While coming from Wankhade Stadium last week after seeing the humiliating defeat of India, minds went over all the Indo-Aussie matches of the last decade and a half and we found the scars of some wounds still remained fifteen years down the line. Shall we be able eno to nurse these wounds this time? Is the hype created about this test series justified? Let's co face to face with reality.

★ The fact file : In the last 7 years, only 1 series win abroad against the 'mighty' Banglad for India. Some good series wins at home. However, India fails to maintain 13 years unbeata record against SA, in 2000.

However, for the Kangaroos, series wins abroad against SA, Pakis, Kiwis, Windies, also to forget the 'Ashes' and lastly 16 consecutive test wins this summer.

★ The approach : Indian Coach, John Wright, emphasised the need of continuous motivat for the Indian team. Australian lion Ian Chappel said that if you don't get motivated wear the country cap, you are not eligible to play for the country.

★ Mental toughness : From Johannesberg 1997 to Eden Gardens in 1999 via Bridgetown 19 how many times have we snatched defeat from the jaws of victory? Conversely, from P Elizabeth 1997 to Hobert 1999 via Headingly 1999, how many times have we found Auss from 4/48 to 8/265 in a one-day match or from 6/101 to 411 in a test match, ultimately win or save the match?

★ Sachin Tendulkar factor : "Which Australian wicket is most prestigious to win the match?" T is something which neither Siddhartha Basu nor Derek O'brien can answer. There can be options from Waugh to Miller. While Indian dependency on Sachin Tendulkar is no longe secret.

Let's end this never ending session. Having said this, one might find 'Gavaskar - Border Troph in the hands of Saurav Ganguly after the Chennai Test as 'Cricket is a game of Chance' (I a hoping the same), but let's not expect too much. Let's not sulk or brood over defeat but take in our stride. Let's enjoy the sport for what it was originally meant.

Friendship

Suryakant Raikar – TE (Electrical)

Frees your mind from every unwanted thought.
Hates your mistakes, but loves you a lot.

Reminds you of the past and the talks you have had.
Every laughter every pain and every tear you have shed.

Inserts a sense of security in your mind.
Makes you believe him and follow him blind.

Enters your heart through a door which few go.
And finds some secrets which few around know.

Navigates through your heart and finds him a special place.
Either be good or evil, accepts you in every face.

Defines to you what you were, what you are and what you can be.
What he sees in you is the real you, which you yourself will never see.

A friend is an exact replica of your soul,
who in this selfish world is playing your friend's role.

SURVIVAL OF THE WELL-READ

ROLI GUP
BE (Electri

Bacon said, "Reading makes the perfect man". (or woman, to be politically correct.)

In this day and age of the invasion of media like radio, TV and most recently, the Internet, d this still hold true? Yes, and if one were to deeply analyse today's scenario, Bacon's words more relevant than ever before.

Consider a child's learning process. The child first 'sees', then he learns to speak and finally read and write. The ability to read is thus an amalgamation of the utilisation of all the sens

On the more general side, we read all the time. This reading ranges from our daily newspa to textbooks to books an all possible subjects and even, "reading between the line". The read habit is all-encompassing in nature and is aptly called the "Mirror to life".

The human power to imagine things is largely a result of the reading habit. This power to imag is the stimulus which has led the human race to advance through many centuries of spiritual a technological achievements. It must be understood that reading also means comprehending a retaining what we read. It is in this context that the type of books one reads is equally importa Rightly has it been written, "Some books are to be tasted, some to be chewed and some oth to be digested."

The fact that the reading habit is directly responsible for our power to imagine and hence progress can be easily illustrated.

For years, our concept of heaven and hell perceives heaven as a place of gold, a place of happine with angels who sing in melodious voices, with fingers delicately caressing the strings of har food and drink a plenty; as opposed to hell, where nasty fires burn and people are punished, flogg and tortured for the sins that they have committed on earth. How did this concept come abo It was solely because of Dante and his "The Divine Comedy", which gave graphic descripti of heaven and hell.

The difference between poetry and painting aptly describes the richness of the reading habit painting admits only that one moment on which the eye can linger and satisfy the imaginat to a limited extent. A poem on the other hand builds up the moments of emotion and dra The imagery can be gradually exposed to the reader who is then at liberty to understand a satiate his imagination as he deems fit.

Reading broadens the outlook and sharpens the mind. It enables thinking and teaches us to approa life with an openness of mind. The characters and situations that the writer of the novel suppl us with are those that we encounter in our lives. He gives us an imitation of life as it actually

casually expressed in daily speech and action. By virtue of knowing those characters we are equipped to handle them.

today expound the virtues of practical experience, this experience would not exist, for the fact that we can read. How else would it be possible for us to operate a machine, reading the manual first? The importance of reading cannot be overemphasized. It was realization that reading is a necessity not a luxury that led Louis Braille to develop the Braille for the visually impaired.

surf the Internet, we read the information available. The quality of a website is determined by the quality of the reading material presented on it.

and knowledge in diverse fields like history, geography, literature, engineering, science and information technology must necessarily come through reading the material.

a well-read person can; not only bring the light of knowledge into the lives of humans but also progress professionally and spiritually on his own. In this fast track world, is no longer "Survival of the fittest", it is

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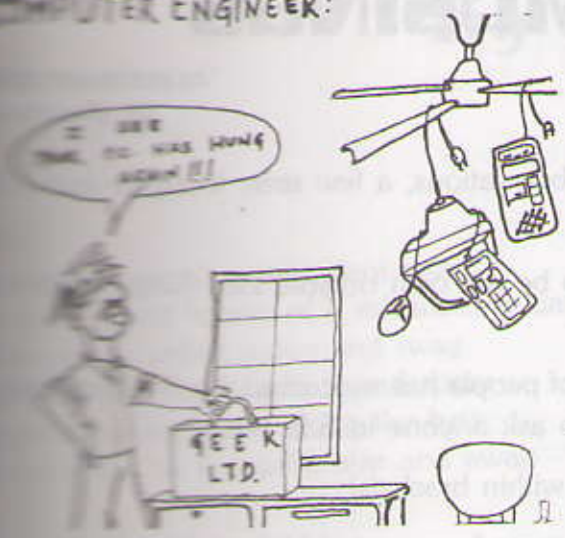
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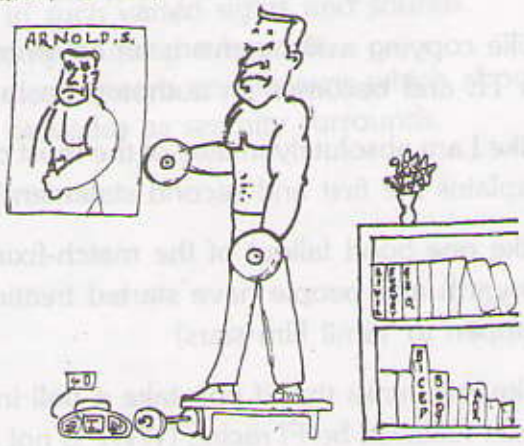


WORKING ON THE NET!!!

ELECTRONICS ENGINEER: PONDERS OVER ... SPEAKER SYSTEMS ...



CIVIL ENGINEERS: WELL, MOST OF THEM BECOME BUILDERS!!!



MECHANICAL ENGINEER:
DECISION MAKERS OF THE FUTURE



ELECTRICAL ENGINEER: SPREADING SPIRITUALITY



RANDOM MUSINGS

*ALIASGHAR B
SE (Electro

And for a new Disha here are a few general observations, a few stray thoughts and a points of view (all my own original work).

Like whatever anybody may say, I proclaim this to be my own original idea (with a little from here and there).

Like in spite of all the criticism at least one section of people has welcomed the 30% reserva for girls in engineering. If you don't believe me, go ask anyone in S.E. Mech.

Like I particularly dislike using brackets (especially within brackets).

Like I am waiting for one new professor who hasn't come from central Maharashtra (or Nag

Like show me one student who has written every assignment by himself and I will ask h write my assignment too (What did you think!)

Like copying assignments is an art every S.P.C.E. student learns in FE, practices in SE, ma in TE and becomes an authority on in BE. (Some get there even faster)

Like I am absolutely in awe of the most original music director in Bollywood, Mr. Anu Malik. explains the first and second statement)

Like one good fallout of the match-fixing scandal is that our cricketers have finally come to earth and people have started treating them like human beings. (God knows when this happen to Tamil film stars)

Like me thinks that if you take a poll in S.P.C.E., football will turn out to be the most wat sport followed by FI racing (WWF is not a sport) and cricket will be a disgusting last, even be golf (My sentiments at least.)

Like I am eagerly awaiting the start of the next FI season. At least this time Hakkinen will d Schumacher (I know this statement won't be very popular.)

Like at least Mechanical can have a ladies representative there are a lot of beautiful conten for the post of FE Mech.

Like one fine day, our college will be completely repaired (I hope it happens in my lifeti

Like suddenly I see a lot of dustbins around. I remember the times I had to go all the wa the reading room just to throw an orange peel.

Like every year we plan to have our pro-nite at Bhavans ground and looks like this year we might do it.

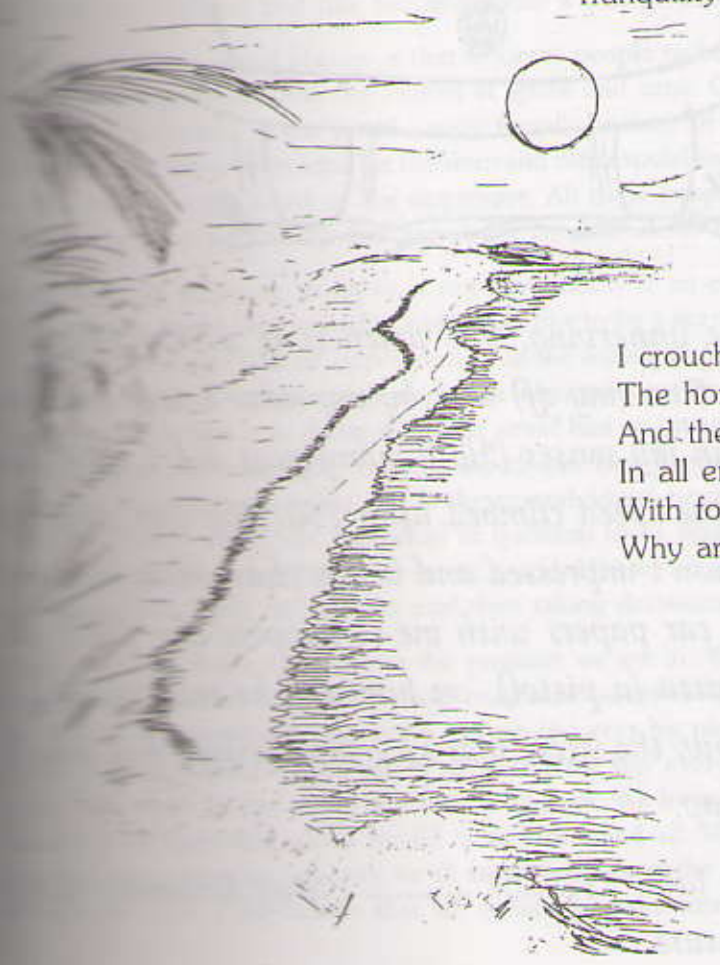
And this final point of view:
However hard any outside force may try, S.P.C.E. will always remain united.

By the Sea

ASHISH M. PATEL
TE (IT)

Beneath the sun's resplendent rays
In the fragrant breeze of a midsummer day
The casted palms swing and sway
The maroonne waters splash and spray
Against golden sands along the bay
Over which fly the gulls; afar and away

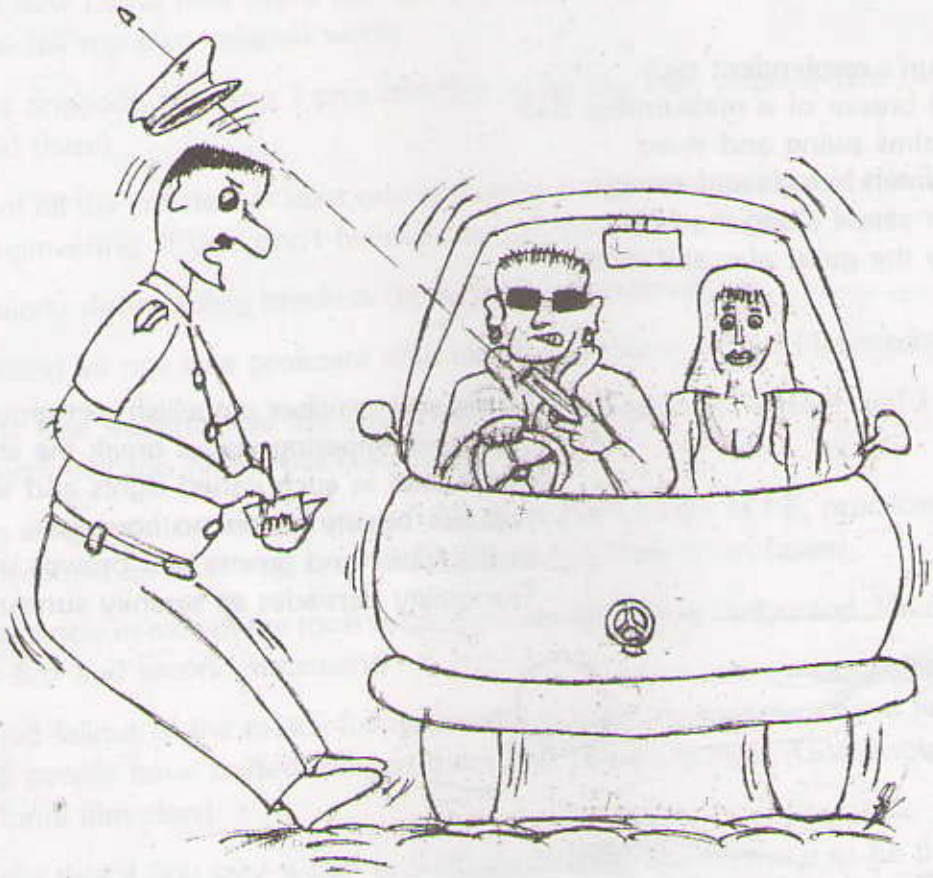
Shells and conches embellish wet grounds
Where whimpering waves break the stillness around
Manifested in such varied sights and sounds
Nature's beauty knows no bounds
In the blues and greens and browns which abound.
Tranquility pervades as serenity surrounds.



I crouch on the rocks, in the distance I view
The horizon blurred by the merging of blues
And the scene scattered, into a thousand hues
In all entirety, tender and true
With folded hands I ponder and rue
Why are God's gifts, such far and few?

Statutory Warning

AIYER M. KUM
S.E. (Mech)



Driving a car at 120 kmph can be unnerving, but when it is a Mercedes it positively exhilarating but because Pam (my gf) was by my side. I was think of other things. So I really wasn't in my senses (How many pegs did I have th night?) and was eyeing Pam when the speed climbed upto 150. The cop, who h his car parked around the corner, wasn't impressed and in the chase that follow plenty happened. I didn't have the car papers with me (I suppose the Merc w stolen) and so I discharged my Beratta (a pistol) on him and he reciprocated shooting both my rear tyres flat. Now, the Merc was swerving wildly and was a collision course with a petrol pump.

You on the last bench, State Lenz's law. 'UUh..... : Day dreaming dur lectures can be injurious to your future.

I want to be different....

SUMEET LADSAONGIKAR
SE (Electrical)



Two roads diverged in a wood,
I took the one less travelled,
And it has made all the difference.

– Robert Frost.

... such a beautiful, rebellious and I dare say, terrifying word. The very basis of human evolution and ... has been change. Change in the way things were done, change in the way an old order of society ... and change in the very thought process which established such an order has been the reason the human ... has come to be what it is today.

... world we live in is pretty mediocre. It is not some place where a person who wants to do something ... gets all the support he needs. It is by and large a place where people are not willing to go that extra ... to accommodate a process of thought which is different just because it is different. Resistance to change ... something which is inbuilt in the human psyche. There exists what is commonly known as a 'herd mentality'. ... because someone else is doing things in a particular way, everybody else follows suit. Ninety-nine people ... a hundred prefer going along the trodden path and it is that one individual who dares to differ on whose ... falls the burden of finding a new path. The greatest of men were those who constituted that one ... hundred. For, the great minds were not the ones who thought along established lines but those who took ... road less travelled and this brought about a change in society.

... greatest thing about change is that it forces people to be different. Albert Einstein brought about a fundamental change in the way we looked at space and time. Copernicus and Galileo brought about a change ... the way we looked at the world - quite literally, in fact. In India itself a man in a loin cloth brought about ... change in the way movements for freedom and other social and environmental causes were fought - by attacking ... not the body but the mind of the oppressor. All these people were ones who were dissatisfied with the way ... things were done and hence thought about an alternative. They opened whole new fields of thought.

... being different or trying to be so is not easy. Today if an engineering student decides that he has a greater ... in the world of spirituality and would like to be a hermit freeing himself from all the world's bondages, ... bound to attract a lot of opposition from the society in general and the peer group and family in particular. ... is so much of regimental thinking that it hampers not just the development of a young individual's personal ... but also leads him into doing things he never had an interest in. The primary aim of everyone in this world ... to be happy and contented. Material wealth can 'buy' happiness only upto a certain extent. There does come ... a time in life when one stops and looks around where he is going, whether his fame and fortune are taking ... him anywhere at all. If the individual in question loves what he is doing, he can go along with his material ... success with all the true happiness in the world. Hence it is imperative for one to be aware of ones strength's ... and weaknesses, likes and dislikes and then taking decisions instead of merely swimming with the tide.

... we are really fortunate in the position we are in. We are all training to be the professionals of the ... millennium. The decisions we take from now on are the ones which shall influence our lives (and hopefully ... those of many others). The world as such is a very big place and has enough room for all kinds of people. ... is enough space for people to do things the way everyone else does. However, if we have to shine out ... in the true sense of the term, we have to change. We have to explore ways and means of doing things that ... would set us apart and which would benefit one and all. We have to be different and do things differently. ... I don't say that we have to all aspire to change the world, but in our own little way if we can make ... difference then I do believe that we could make the world a better place to live in.

STUDY - LEAVE

KETAKI K. KULK
SE (Comp)

Class tests over,
Submissions done
But don't expect fun
For study-leave has begun!

Which books to refer,
Which notes to gather
We tap all sources
And run for all courses.

With full enthu a time-table we make
But that's just for satisfaction sake
Care to follow it
We seldom take.

Theory is such a pain
some subjects are so insane
But we have to bear this bane
'Coz we don't want them again.

EQ-G-Q to crack
Our brains we rack
A semester's work
In a month we pack.

We make a grand resolution
'Next sem will start with concentration'
But that just all in vain
For history has to repeat again!



TILL STUDY - LEAVE



THE IDEAL CITIZEN

PARAG THATTE
TE (Electrical)

How do you define an ideal citizen? Though this is definitely an exercise with no real meaning and in this world, of no real significance, it is on the basis of such pointless exercises that the modern world is established. How did the world accept such highly developed concepts such as morals or ethics unless someone had started pointless exercises in order to understand them? So we try to define the ideal citizen.

Though the dictionary meaning of citizen is 'inhabitant of a city', we take the broader view of the word as 'inhabitant of civilization'. This makes matters much easier for us as we don't have to deal with the myriad laws that govern individual cities. Even then defining the ideal component of civilization is not simple. Do we take the established laws of the land as the defining criteria? This would seem the obvious and accepted way. But the problems associated with this line of thinking are many. For example how do you treat citizens who break the laws of a tyrannical society that is otherwise accepted in the worldly scheme of things? We are not talking of places like Afghanistan and N. Korea, but of places like the erstwhile U.S.S.R. and China. Closer to home, how about our freedom fighters. They too broke the laws of the land and in view of the rulers, the British, and were definitely not the hallowed beings we consider them. Going a bit deeper, how about a doctor who breaks a traffic signal in order to save a patient's life? Does he get a negative mark on the ideal citizen rating or a resounding round of applause? Should the base be some sort of global view that takes human rights as the foremost deciding factor? But then again the question arises as to how global this view really is and how impartially it is applied. Police officers on duty certainly rubbish everything related to human rights.

The way out of the seemingly unsolvable situation is to base the definition on one thing that is indisputable: the human conscience. Majority of the problems in society arise out of people not listening to their conscience. Of course some people seem to be driven by their conscience itself to do things that are not acceptable to others. But probe a bit into their psyche and something will emerge: either some incident of some people who have done a brain washing of their mind. Still others exist who seem to have their conscience bent completely the wrong way. The only thing one can say for them is that nothing is perfect. We live in a real world not a Utopia.

As we said earlier, this article is basically pointless but then it does compel some to stop and think. At least I hope it does.

MY TEAM

SANDEEP MAN
B.E. (Mechanic

I write this article-with immense happiness tempered with a little sense of remorse. Ha ness because the S.P.C.E. football team, for the first time ever reached the finals of Inter-Engg football tournament; and remorse because we lost in the finals. Neverthele love to call it "my team", not because I am vain enough to think that I am all impor for the team, but because it gives me a great sense of pride to say so. I am very co dent that it is no different for my other teammates also.

It's not that we made it this far because of some fantastic players or anything like that. a matter of fact we were ranked way behind in skill, stamina and coordination (why?! e the sports secretary sarcastically asked us whether we were out of the tournament or just after 2 matches). It was the camaraderie we shared on and off the field that made stick it out this far. Every player knew that the other guy wants to win just as much him. The trust that is needed between players to propel a team to victory was evi here. There was a sincere effort by everyone to give their 100 percent to the team.

We started off by practising at 7:00 in the morning everyday, only a week before the t nament's commencement. We were caught off guard due to the tournaments startin month earlier than previous years. There were less than ten days left to organize and the team into the mood. Once we got going, the practice sessions helped us identify weaknesses (quite a few!) and we hardly had time to improve individually. But as a te we were able to hide these weaknesses and managed to handle them better.

In the first match, we faced a weak team and won easily despite numerous mistakes. A the second victory against a better team our confidence increased. Only then did we th that the cup could be ours. Our place in the quarters was also assured with a match to However we lost 2 of our top players before the quarters and the situation became bl But losing hope now was not in our hearts. We had not lost a single match yet and di intend to do so now. Two new players were brought and we continued as before.

Frankly, our strategy was simple; we just needed to score one or may be two goals cause penetrating our defence was not a piece of cake. Then we had the best goalke in the tournament. Evidence of this being that we conceded only 3 goals during pla the whole tournament (very sadly 2 of them being in the finals). Winning the se through tie-break penalties was very lucky, but then during the match we came back f a goal down to equalise.

though was a very sad affair. Not only because we lost but because our performance in the finals was a shadow of our true selves. It is particularly heart wrenching when I realise that the reason for this was nothing but complacency! Of all the things, we didn't give our best because there was a smug feeling that we had reached the finals. Remembering that match now is a real heartache since we did have our chances with the ball hitting the cross bar and all. We could have still "won the cup".

There are two things important for a team to succeed. First being a sense of belonging to the team. The reason for this is that a good rapport between players assures that happiness and the success of the team comes first. If there is discontentment among each other, there is a sense of frustration with the team and giving your best is highly unlikely. Imagine someone feeling jealous when the other guy scores a goal. How ridiculous this would be in the light of the fact that the goal is taking the team to a victory. This sense of belonging was present in our team to quite an extent. The second and most primal quality needed for winning is the very *desire to win*. Without which, in any field, all the brilliance and excellence is a waste. You should have a *want to win* and only then can you ever win.

When it came to the team in the first year it was unthinkable for players to get up and practice in the morning. Winning the tournament was just a dream based on luck and chance. It was a far cry from being a concerted effort. The sense of belonging was absent and forget camaraderie, there were times when a few players hardly knew each others properly. It was almost the same in the second year. It was in my third year that practising in the morning started. It was much more organized and serious this way. That year we even had a coach but our luck was a bit bad. I am quite sure that even that year the trust and the feeling of playing as a team between players was not as high as this year. After we had lost 3-0 in the quarters a year before that. So, the confidence was probably not that high. The confidence this year was also not soaring during the start. But our gain this year was that we were actually a team on the ground and not only on the roster as given by the referee.

I think now players believe that they can win and there is an ever more desire to win. I believe that the modest success this year is helpful in improving the situation of football in our college. We don't need to have a university class team (that wouldn't do us any good though) but if we carve a name for ourselves among the engg colleges, that would be more than enough and later maybe SPCE could succeed in inter collegiate tournament.

Finally I would like to say that I don't think I will ever get a chance to captain such a team ever again. It was very satisfying to come this far also.

YEARNINGS

PRIYANKA SU
TE (Comp

The crimson sunset
The cool blue vast skies
Remind me of my childhood days
The sun going down
The kites flying high
And there I stand on the loose sand
Tickling my feet and pulling me with the tides



The blue green sea
with tiny boats
Their sails so white
sparkling bright
Far far away
They sail and sway
Take me with you
From shore to waves

The scent of damp earth.
Brought by the first showers of rain
The first ray of early sun
The fragrance of fresh blossom
The cool breeze striking on my face
The moonlight and night so calm
Wish time could stand still
Or I could capture and recreate
Every moment the memories I treasure.

KILLER QUAKE

MRUGESH GA
BE (Mec

The country woke up one morning.
Only to find a reason for mourning.
For Gujarat had been torn apart,
By an earthquake- at its heart.
This was Nature's way of showing ire
By spitting venom and fire.

The quake consumed one and all
And annihilated many a wall.
Relief was rushed from far and wide
To those who had survived.
The death toll mounted with every passing day
With the monster quake having the only say.

The quake has taken along with it
A horde of memories – that used to sit
On the mind of every individual
Like a crown containing a jewel.
Let us pray for the departed souls
And survivors – with destroyed goals.

SPACE OF SPACE

Kritika Bala, Vidya Adala, Aparnasri Sastry – TE (Etrx.)

[illegible] has the magic to have the whole of SPCE agog. Being a part of the SPACE Committee, [illegible] had to short list five cool & sometimes hot hangouts in SPCE each of which could be called [illegible] the space of SPACE!

[illegible]:

[illegible] room, telephone booth, guest room, store room, lost and found room, canteen, house [illegible] and dumping ground all rolled into one..... the epicentre of SPACE.

[illegible]:

[illegible] for short, the XL version of the GS room, the training ground for FEs, birthplace of events, [illegible] for frustrated souls..... the soul of SPACE.

[illegible]:

[illegible] of colour replete with madhatters, dancers, rock climbers, budding badminton players, the [illegible] hangout for all those trying to 'workout' their artistic abilities, the debut of the gym as [illegible].

[illegible]:

[illegible] of public secrets (!), distribution centre for free pototoes, samosas and sandwiches, venue [illegible] sessions..... a hotel providing food for thought.

[illegible]:

[illegible] filled with bugsmashers, Schumachers and Sennas fighting a battle of Bytes of brains..... [illegible] called Technoholics Synonymous.

[illegible] form the essence of SPACE... the spirit of SPACE!

TINY TOT

KETAKI K. KULKARNI
SE (Comp)



Oh! Tiny tot, don't cry when it's time for school
Don't shed tears just remain cool
It will be your strength – you'll realise it soon
It's the dawn of your future – You'll enjoy when its noon
There are so many others bereft of this boon !

You'll make friends there
You'll realise they're precious and rare
Seasons may go and years may pass
But their love for you will always last.

Life without education
Is just still stagnation
A travel to a destination
Without the right direction.

It will give you an identity
Remove all uncertainty
To your dreams and your goals
It will add a touch of reality.

It will make you stable and steady
To face life you'll be ready
So don't fume, don't fret
Your future awaits you, so get set !



Friends

SHREYASI DUTTA
TE (Electrical)

It has been said that, "A friend is that star which always shines in the darkness of misfortune". Before you groan and sigh and have that "deja vu" look on your face, let me tell you friendship is one of the best gifts to mankind and no matter what has been said and written about friendship it is never enough.

Joining SPICE has been one of the wisest decisions of my life. The word friendship means a whole lot of things to me now. This is not an eulogy on friendship but something which is manifest.

For starters, it is about being there for your friend when she/he needs you the most. It is about standing by her through thick & thin. This may sound like a cliche, but it is one of the most fundamental rules of friendship.

On a lighter vein, friendship is about laughing together over trivial issues till you have tears in your eyes. It is about having the insatiable desire to pull her leg and having good humoured fun at her expense. Friendship is about taking interest in your friend's love life; especially when you are bored to death. It is about taking each other for granted every now & then.

Your friendship can never be complete without that instrument which good, old, "Alexander Graham Bell" invented. Modern day friendship definitely implies speaking on the "telephone" for hours about everything & nothing at all, oblivious of all kinds of parental threats. Friendship is full of contradictions. It is about being diplomatic and tactful at times, while being crude & frivolous at other times. Adding spice to life, true "camaraderie" is about bickering over mundane issues, misunderstanding each other and then forgiving each other for all the harsh words exchanged.

The list can go on and on. Concluding with the words of the great author Eric Segal, "Friendship is about never having to say 'sorry' or 'thank you' ". Lastly friendship to me is being able to call all of you my friends.

THE CHILD IN ME

GAURANG SHANBHAG
S.E. (Electronics)



Sifting through the sands of time,
I found a part of me I had left behind.
A memory so old I could hardly remember,
But I could feel its warmth in that cold December.

No feelings of sadness not a hint of despair.
I had no regrets & there wasn't a care.
There was only the joy of running free.
Hysterical laughter at a tickled tummy.

A cute lisp from broken teeth,
Tiny prints of muddy feet.
Food fights at lunch time,
Cover versions of nursery rhymes.

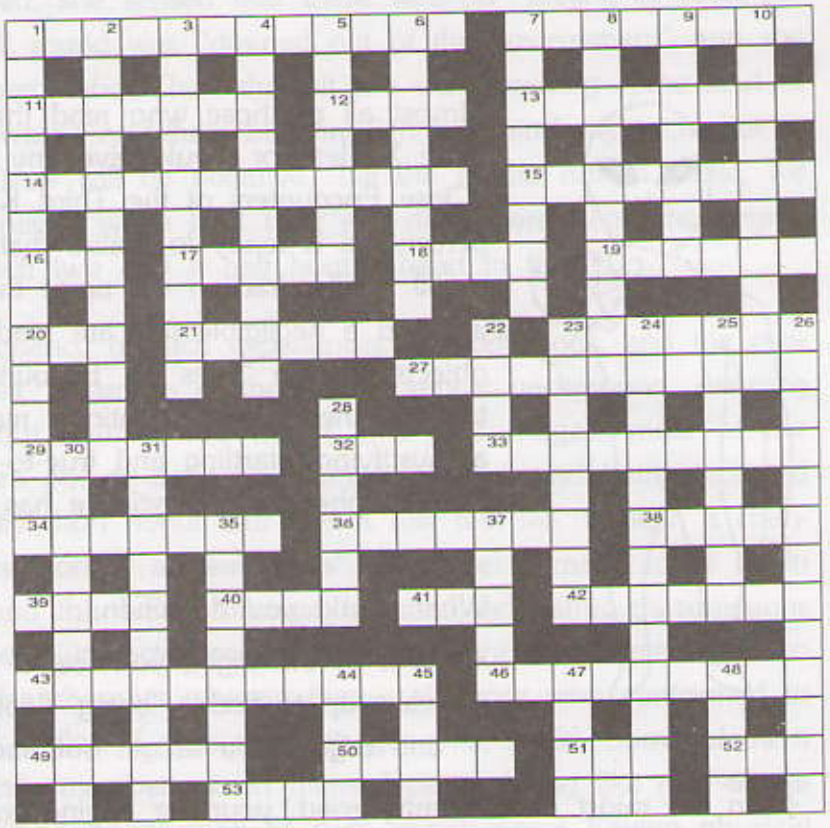
How? Why? What? Without a gap,
Chocolate bribes to shut my trap.
Bedtime stories just how could I miss,
Off to dreamland with a good night kiss !!

And as I wake up to a Monday morning,
For a time long gone, I find myself yearning.
As I look deep down, I see the truth
of a childhood lost in search of Youth

I face the mirror all misty-eyed,
I'm looking at a man, but I see a child.
A toothy grin replaces the sigh,
I know the child in me will never die.

Cryptic Crossword

MRUGESH GAGLANI
BE (Mech)



DOWN CLUES :

1. One might say this in a do-or-die situation (3,2,5)
2. What we engineers are so obsessed with (12)
3. A nobleman who is also a confused stair actor (10)
4. He might need a few of these if he loses his way in our college (10)
5. Excessively employ a sour girl (7)
6. Weary Oman leader has to meet Sir (8)
7. Part of tulips accompany our friend for the final word (8)
8. Ship repast – infiltrate prohibited area (8)
9. British cops partly parcelled in ship (7)
10. Registered using a mixture of doll and eagle (8)
22. Palm of Aladdin or Florence (4)
23. Journalist Ed revived to explain (8)
24. One of the four – roughest with a cant tail (8, 5)
25. Miniature removed I to ponder (8)
26. Shy mother using articles in CR to make a flower (13)
28. Maybe on or off (6)
30. Rarest aunt finds an eating joint (10)
31. He has a burning desire (10)
35. This is grabbed to show strangers the way (4-4)
37. Asian land in Dominica (5)
44. Bard William's sobriquet place (4)
45. Dine at the Blytons (4)
47. Constellation at the North Pole (4)
48. A regret – farmer's need (4)

THE TRUTH IS OUT - HERE!!

CHIRADEEP B CHH
SE (IT)



Almost all of those who read this article would be keen viewe "The X-Files" or would give any fortune to watch Steven Spielb "Close Encounters of the Third Kind". But, unfortunately, not a percentage is ready to realize that all this and more is possible. a still smaller fraction will agree that this and more is actually ha ing and a negligible few are ready to concede that they too ca objects of such "Files' or 'Encounters". Yet, for those who are w to open their minds to rational reasoning, I here endeavour to pr a mystifying, startling and true-to-every-word account of the mo credible phenomenon science has ever witnessed!

What would you do when,

- At 2 in the night, you feel a tug at the foot of your bed a wake up to find a 'being' floating at the foot of your bed. p and urging you to get out and go with him?
- In the midst of a country road, your car engine goes dead, the gears don't work suddenly you are engulfed in a halo of bright white and bluish light; all that com your mind is instructions being conveyed, although there is no one for miles arou
- On a perfectly beautiful and misty monsoon afternoon, you are seated on the be outside your cabin and suddenly, the mist begins to drift "towards" you without apparent change in shape and the next thing you realize is two pairs of feet "han out below the mist and approaching you?

I expect you to dismiss these events as impossible and even ridiculous. But spare a th when I claim these are true life - events. What do you do then? Your instinctive rea would be to kick at the 'being', to panic, to scream, to flee, to lock yourself up or pe even cry.

But, as the lady (name withheld for purpose of anonymity) realized, even though wanted to kick the 'being' at the foot of her bed and scream to her husband sleeping to her, she couldn't. Her memory was abruptly cut-short and the next thing she rea was that she was standing in the kitchen in her nightgown. She remembers looking to the east facing windows, which were "flipped out", although they were slide-open win Through the window, she could clearly see a light ball outside her courtyard that wa where near what a street lamp looked like and the ball suddenly rises up and vanish a "flood of white light" from somewhere.

Paddy from Rye in Victoria, Australia, felt, that as soon as all possible attempts to get her car on track failed, she sensed that there was no "feeling of road between the tyres". All of a sudden all sound was "drained out of the environment" and she felt like moving up a completely closed tube. Then she felt she was receiving some kind of telepathic transmission by a voice that wasn't anywhere but "inside" her mind saying to her in perfectly legible English, "All your tests will be negative. Tell the media not to panic; we mean no harm to anyone". The brilliant white light then just disappeared and the engine started all by itself. She found herself two and a half hours ahead in time!!

More astonishing is the frequency of such experiences, or abductions, and the consistency in description of all abductees, regardless of their demographic background. Assuring about the validity of facts without delving too much into percentages, most of the abductees report having been woken out of sleep or taken from cars, and being levitated by Small Green or Grey Men, mostly short about four and a half feet tall, through a channel of green or white light into some sort of a "featureless" room; being made to lie down on a bed or "examination table" and this being followed by some telepathic transmissions through which they felt information was being extracted out of them. A significant percentage also recollected being given a "tour" of the chamber wherein they - all those who conformed to this part - saw fetuses contained in bottles of glass with nitrogen- like liquid. Some of them even said they saw one of their family members, even themselves, as being like one of the Small Grey Men. Researchers have also confirmed of such experiencers having physical marks - some on the chest, some behind their ears; very many also felt they had been genetically tampered or experimented with". Abductees also reported having undergone "Missing" time where there may be strong telepathic eye-to-eye contact and some sort of "bonding" taking place.

Most say that these aliens, if I may be permitted the expression, never do anything ridiculous. A twenty-year old, male abductee reported his colour blindness corrected by aliens. In another case, a researcher had an HIV-positive abductee who now tests negative!! Doctors would swear these aliens are good beings!! Betty Hill, while traveling from Montreal to Portsmouth, New Hampshire also found out that the abductors didn't understand the difference between her natural teeth and her husband's denture and so let them go!!

What possibly could these Small Grey Men (and there are women as well) be? What is the motive behind these abductions? How can they levitate people into their crafts? How are they able to achieve acrobatic feats of motion through space and/or possibly time? How is it that they are able to communicate telepathically and in perfect English? As an avid watcher of The X-Files may suggest, they probably are here to develop human - alien hybrids so that, when they invade Earth with their weaponry, only these hybrids will survive and therefore, the conquest and colonization of Earth would be achieved. Or perhaps, they have physics much advanced than ours (with due regards to Stephen Hawkings) and

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these aliens, if I may be permitted the expression, never do anything ridiculous. a twenty-year old, male abductee reported his colour blindness corrected by aliens. another case, a researcher had an HIV-positive abductee who now tests negative!! Doc- would swear these aliens are good beings!! Betty Hill, while traveling from Montreal to Hampshire also found out that the abductors didn't understand the differ- between her natural teeth and her husband's denture and so let them go!!

possibly could these Small Grey Men (and there are women as well) be? What is behind these abductions? How can they levitate people into their crafts? How they able to achieve acrobatic feats of motion through space and/or possibly time? How that they are able to communicate telepathically and in perfect English? As an avid of The X-Files may suggest, they probably are here to develop human - alien hy- so that when they invade Earth with their weaponry, only these hybrids will survive the conquest and colonization of Earth would be achieved. Or perhaps.- physics much advanced than ours (with due regards to Stephen Hawkings) and

plan to initiate an intergalactic cultural exchange program besides forwarding some of the advanced ideas in physics, interstellar or interuniversal travel, genetics and the like. Or perhaps, they may be from one of our parallel universes, trying to fill in some of the voids in their "structure" or "matrix". As certain researchers of the Pyramids point out, these beings may be responsible for helping in the construction. They may be monitoring human evolution for ages and this may be their chance to study our current form. It is interesting to note that they do not seem interested in other organisms - fungi, bacteria, dogs and cats likes. The possibilities are endless and subject to personal beliefs. However, one thing that seems to emerge is the fact that we are experiencing some kind of "contact", some form "attempt to establish a relationship", since, apparently, they have a decent knowledge of language.

Innumerable people have reported "visits by Little Green Men" since their childhood. Hypnotic regression testifies these claims. Children have grown up with strange marks on their bodies. Women have felt impregnated during sleep and after another such encounter, have been absolutely normal. As an abductee said to his researcher, "I don't care whether people will believe what I say or not. It's a question of their beliefs. I don't even care if science denounces this phenomenon. But all that I know is we experiencers do believe in ourselves and what has happened to us." And despite these verifiable facts, there will still be a section of people who say this isn't happening.

Investigators around the globe say that in only an eighth of the cases can these events related to weather anomalies or sub-conscious instability. Besides that, they can find no reason to disbelieve what witnesses claim. To quote Sherlock Holmes: "When you have eliminated the impossible, whatever remains, however improbable, must be the truth." David Pritchard and John Mack, chairmen of the seminar on Alien Abduction at MIT in 1992, point out: **If this isn't happening, then what is?"**

Answers to Cryptic Crossword (on page 52)

ACROSS : 1) Nuts and bolts 7) Unturned 11) Wackier 12) Ecru 13) Theodore 14) Run its course 15) Mappable 16) Etc. 17) Chile 18) Mint 19) Sy 20) Eel 21) Anneal 27) A naked truth 29) Cryptic 32) Wet 33) Picc 34) Estrada 36) Termini 38) Tiara 39) Harm 40) Ouch 41) Rod 42) Escheat 43) French Leave 46) A puncture 49) Entail 50) Onion 51) Spa 52) Emu 53) Dean

DOWN : 1) Now or never 2) Technicality 3) Aristocrat 4) Directions 5) Overus 6) Tiresome 7) Ultimate 8) Trespass 9) Redcaps 10) Enrolled 22) L 23) Describe 24) Atlantic Ocean 25) Ruminate 26) Chrysanthemum 28) Switch 30) Restaurant 31) Pyromaniac 35) Door hold 37) India 44) Avon 45) Enid 47) Ursa 48) Urea

The Lost War

ASHISH M. PATEL
TE (IT)

A gunshot flies,
A gunman dies,
A life is lost
In the battle-cries.
In the fight for land.
Humanity pays a price
'For war is insanity'
Have said the wise.
But yet we fight;
And bask is false pride
For we have won a war
With valour and might.
I cannot, but despise,
this wrongful delight
'Cause the war is over
And now comes the night;
Of pain and plight
For those alive
Because their loved ones
Have suffered and died
As the martyr looks down
From the heavenly skies
He sees his child wailing.
And his wife's tearful eyes
It's time we realise:
That peace is the prize.
Which will bring us the light
of a new sunrise
So that this divine light
Can lead us and guide
Along the path of happiness
Which will be 'ours'.
Not 'yours' or 'mine'.
Then there will be prosperity
And joy and delight
Then we may be able
To bask in true pride



Hopes of Tomorrow

ANURADHA SRINIVAS
SE (Comp)

The darkened skies heaved a sigh,
As they moved along and said goodbye.
As they pass by, the thunder I hear,
Which seems to welcome the new year.

With hopes of brightness,
With hopes of light.
With the hope that this year,
Will go just right.

With hopes of laughter,
With hopes of joy,
With the hope that
I shall never have to cry.

I feel just great hoping for the best
With the hope that I perform with all my zes
The past year flew by leaving many scars unh
With many tribulations I have dealt.

I do not pray for no more problems.
For problems, I will face with a smile.
But for strength and will, I do pray,
Which will help me go that extra mil

Let us then together,
Smile and cheer.
And give a warm welcome
To this grand new year.

PEARLS OF WISDOM

- Your biggest competitor is your own view of your future.
- It's not the hours you put into your work that counts, it's the work you put into your hours.
- Tomorrow will I live
  The fool does say;
  Today itself is too late,
  The wise lived yesterday.
- Rare is the person
  who can weigh the faults of others
  without putting his thumb on the scales.
- True wisdom consists not only in
  seeing what is before your eyes,
  But in foreseeing what is to come.

Time to Bid Adieu?

RAHUL RODRIGUES
TE (Electronics)

SPACE 2001 is going to be the best SPACE we ever had! You know why? Because we T.E. guys are in charge of the whole thing!", said my friend, obviously quite excited. None of us could disagree with her, and soon everybody was engrossed in discussing our annual event – SPACE; everyone, that is except me.

While the rest of the gang talked about sponsors, the judges, the prizes and stuff like that, my mind was stuck on three words that my friend just said – "We T.E. guys". T.E. guys - Third year engineering students-sixth semester going on, and soon we would be B.E. guys - final year students. About a year and a half more to go before we become graduates, get our degrees and then-goodbye SPCE, farewell forever.

As much as I was excited about SPACE, the enthusiasm was still sidelined by the fact that soon it would be time for us to bid goodbyes to each other and move ahead in life. My God! Has it really been three years since I was admitted to this prestigious college? It seems like only yesterday, that a boy who has cleared his Std. XII board exams, was tentatively approaching this institution, not knowing what the next four years held in store for him. All my batchmates were excited about doing their B.E.'s from SPCE. I still remember my first day here, where a number of freshers like me, would get lost, enroute to finding their class-rooms, all thanks to the physical size of this institution. A few would muster up courage & tentatively approach the seniors (you could tell from the way they stared at us that they were seniors) asking for directions. Of course, the others were petrified, lest the seniors would rag them – but no such thing happened – at least to me and my friends! What did happen were friendly introductions in the class and of course, their much needed advice regarding various topics.

SPACE enabled us to make new friends, become "known freshers" through "FRESHIES WELCOME" and "Friendship Day" (sorry! The present F.E. batch is yet to experience that!) and get adjusted to life in an engineering college. All these were followed by lectures, practicals, assignments tutorials and class tests. The assignments helped us to know what copy-paste means in computers. Then came Sem-I exams, and of course, our first experience of SPACE - a truly out of the world experience. Then the results the joy & sorrow of it. Months passed, we moved from F.E. to welcoming the new F.E. batch and lending useful advice & having friendly interactions. Didn't you realise that once you're in S.E. you become a senior?)

And..... Oops! Sorry folks! I just forgot to mention TECHNOBREAK - our int SPACE rehearsal which had all of us uniting as one & trying to secure the mum points for our class & keep the sporting spirit pumping.

Months have passed since those days-should I say, 'The good days?' – no, n Many a times, I sit back and think of all the things that I have done here life that I have lived in SPCE. It has brought out the best in me, be it at projects & reports or extra-cultural activities. And while we were supposed to like engineers the various annual events like SPACE and TECHNOBREAK those days Friendship day, Rose day etc. never made us forget that hey, we college guys and we have a right to enjoy life. I'm sure each and everyone agrees to this point.

To sum it up all. SPCE has been the college - the place where I have li life king-size. SPCE where my life took a whole new turn - a fresh chapter novel called 'The Experience of Life'. It is here that I made new friends, f later made up with them. It is here that I learnt the power of unity & su we routed for our class & college be it dance or fashion show or the cric nament. It is here that my professors taught me what sort of attitude an should possess. And soon, all will end-the friends, the activities, the life at

Wow! So much in two and a half years time! Good Lord, why does it all end up so fast? Because all good things come to an end? Perhaps yes. because it will then be time for another chapter in life - to show the w SPCE has moulded us. This reminds me of a quote from Shakespeare's R Juliet – "Goodbye! Goodbye! Parting is such a sweet sorrow! I will say go you. till it is....." – What the heck, man! There is still a year & a half l am not going to create any more emotional scenes until then! Bye for want to make the best use of the time that's left !!!

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Best Wishes to

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EDITORIAL

We have great pleasure in presenting this new addition to Disha : a technical section. This year when we first decided to invite technical articles from students and faculty members, we were a bit apprehensive about the kind of response we would get. But belying our fears, two students came up with technical articles in the first week itself. Then, over the last month, we have been receiving a steady trickle of such articles.

There were abstracts of papers presented at some conferences, and also write-ups about the project work done by B.E. students. But, in addition there were also articles about various other topics. We realised that our students read and thought about subjects outside their syllabi.

The range of topics is very wide and current ones like String Theory and Earthquake Damage Prevention also find a place here. The enthusiasm shown clearly indicates that there was a need for such a forum of expression. In fact, subsequent magazine committees will have to ensure that this camel which has been allowed in the Disha tent does not drive out the Arab of creative writing!

Even though the articles are 'technical', the contributors have presented the concepts in a very simple form. As such, all these articles can be understood by students of all branches.

We have had a little direct and some indirect response from the faculty members too. In addition, many have spent precious time reviewing these articles for us. Since the articles encompassed a wide range of subjects, we have taken the help of professors from all the branches. In particular, we would like to express our gratitude to

Prof. P. K. Nanu	Prof. R. M. Joshi	Prof. M. M. Kulkarni
Prof. Prachi Gharpure	Prof. M. M. Murudi	Prof. A. N Bambole
Prof. Alka Das	Prof. Radha Shankarmani	Prof. Sukanya Kulkarni
Prof. A. A. Godbole	Prof. B. B. Pimple	

We sincerely hope that you find this section interesting. We are also sure that from this sensitive start, the technical section will get better and stronger in the coming years.

Dr. Mrs. M. PATWARDHAN
Ex. Officio
Magazine Committee

TECH REPORT

Following are the list of students who have presented papers as also won accolades for their pre entations in some of the most prestigious technical festivals.

INFLUX 2001-The All India Technical Convention, University of Roorkee,
21st-23rd January, 2001.

- Deepak B.Mahajan & Deepak M.Mahajan (TE Elec) presented a paper on "Industrial Dri and Electric Traction"

TRYST 2001-The All India College Technical festival, IIT Delhi 15th-18th Febru

- Mayank Tripathi, Neeraj Sonalkar and Lalit Pasari (TE Mech) have won the first pr (Chemical Engineering) for their paper presentation on 'Fuel efficient car engine technolo The paper presents a research on the latest technical measures undertaken to reduce the consumption in modern passenger car engines.
- Sachin Patil. and Ganesh Patil. (TE Civil) have won the first prize (Civil Engg.) for their pa presentation on 'Control of Structural response using tuned liquid damper'. The paper stu the effectiveness of Tuned liquid dampers(TLD) and TLD parameters.
- A paper on "Disposal of wastes by Biomethanation" was presented by Pankaj Vishnu Ha (TE Mech).
- A paper on 'The Green Houses - Future of Agriculture' was presented by Sanket Maga Abhijit Naik and Shantanu Prabhune (TE Mech).

APOGEE-2001, BITS Pilani
13th-17th March, 2001

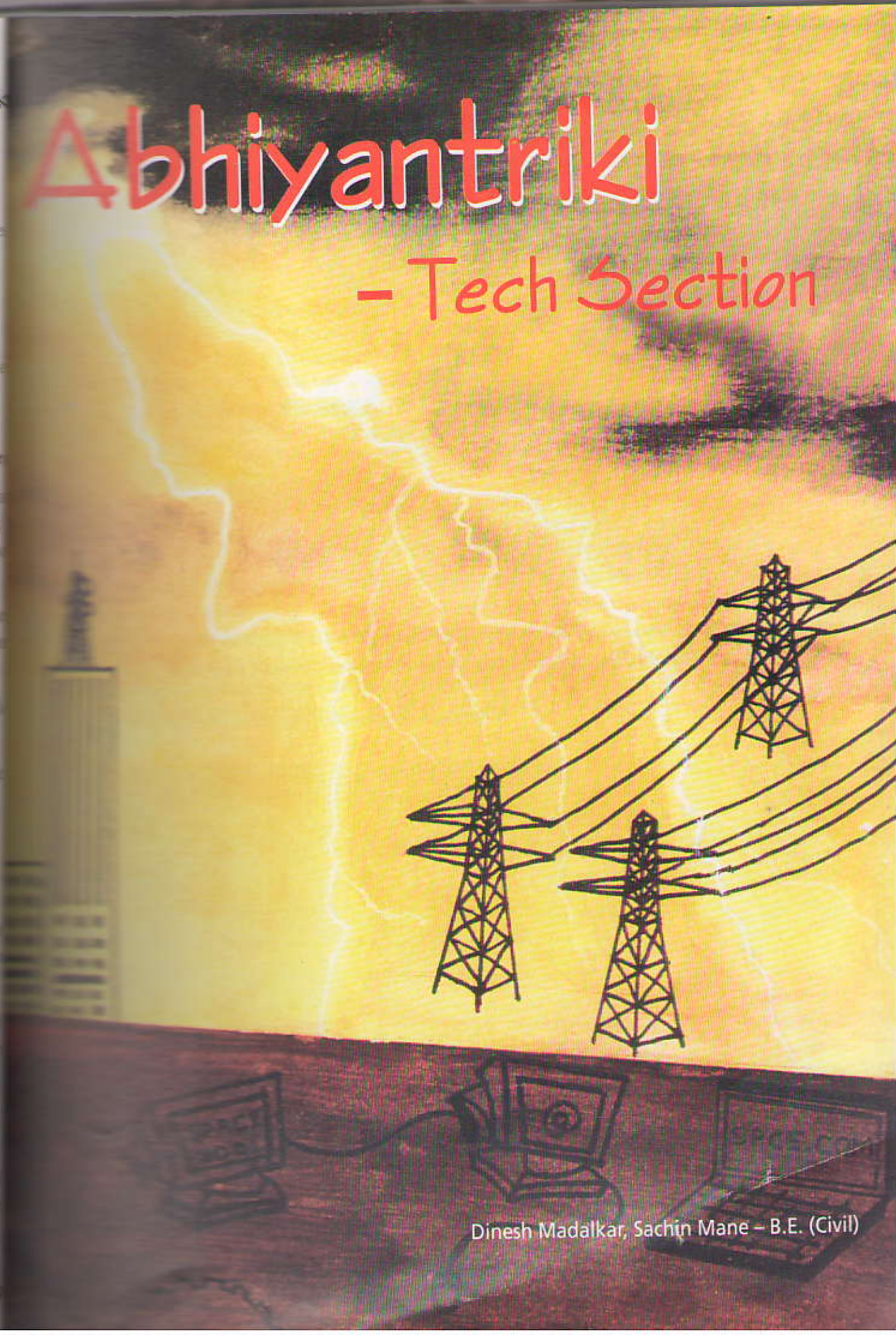
- A paper on 'Fuel Injection Systems' prepared by Purushottam P. Shirodkar and Amit P. Nagars (TE Mech) has been selected for presentation. The paper deals with petrol and diesel fuel inje both mechanical as well as electronic systems.
- A paper on 'Jet Propulsion Engine' prepared by Laxminarayan B. and Amit Pandit (TE M has been selected for presentation. The paper focuses on jet propulsion system employe modern aircrafts and futuristic rockets and highlights the mechanism of aircrafts.

National Level Technical Paper Presentation, REC Trichy

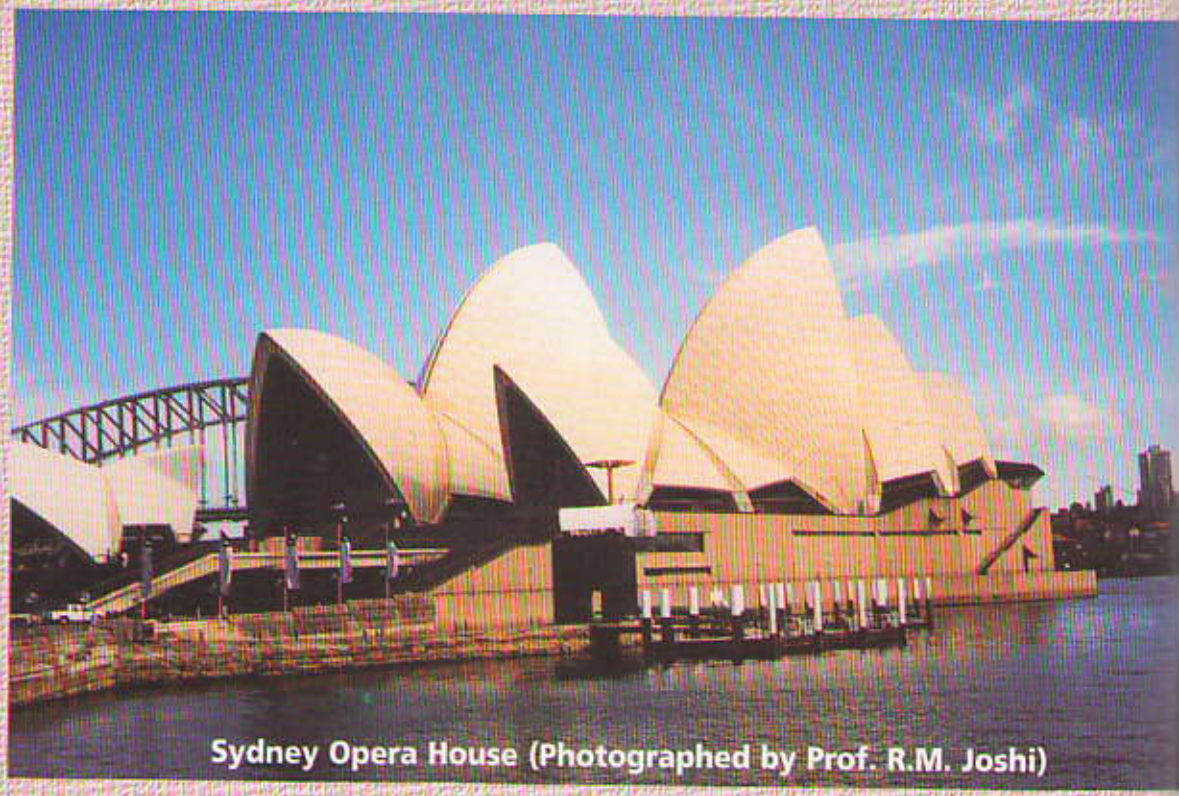
- Nirmal Somani and Rahul Pendse(TE Civil) presented a paper on 'Application of adva techniques in transportation network analysis'. Their paper was selected amongst the top best papers from all over India.

Abhiyantriki

- Tech Section



Dinesh Madalkar, Sachin Mane – B.E. (Civil)



Sydney Opera House (Photographed by Prof. R.M. Joshi)

TWO OF THE WORLD'S MOST RENOWNED CIVIL ENGINEERING MARVEL



Golden Gate Bridge, San Francisco (Courtesy: Dr. Ayyar)

MODERN TRENDS IN AN ANCIENT PROFESSION

DR. R. SUBRAHMONIA AYYAR

Among the various branches of engineering, Civil Engineering holds the pride of place as the oldest one. In fact, it is said that next to creation, construction is perhaps the oldest industry practised by mankind. Looking back to its origin, the history of construction is essentially linked with man's efforts to enclose space for shelter. But over the centuries, Civil Engineering has made tremendous strides in all fields of human activity involving maximum financial inputs and providing employment to the greatest number of skilled and unskilled persons. In fact, all mathematical theories would have been confined to ivory towers and helped build castles in our imagination only but for the enterprise, dynamism and initiative shown by the engineering fraternity in general and the Civil Engineering community in particular.

We all know that Civil Engineers are responsible for developing the network of communications through building of roads, railways, harbours and airports. They help to quench the peoples' thirst and hunger and provide shelter for the millions through construction of water supply and irrigation systems as well as residential colonies. They are the people who cater to the recreational needs of the society by building sports arenas, stadia, theatres etc. In fact the vastness and diversity of the profession imposes a tremendous social responsibility on the Civil Engineer who should be aware of it and confident to fulfill his obligations. A Civil Engineer is essentially a man of the masses braving the extremes of the wind and weather, toiling in sand and swamp, rubbing shoulders with the skilled and unskilled labour and striking a symphony with men and material to create many of the engineering marvels which have withstood the ravages of time to proclaim the glory of this profession.

The very antiquity of this profession is both a boon and a bane. It is a boon because it is the only profession backed by maximum experience in terms of both quantum and variety. This has in turn helped the Civil Engineer to improvise and learn from his mistakes. It is a bane in the sense that having been in existence for ages, it has created a false notion particularly among the students of engineering that there is nothing challenging to learn and hence there is no scope for innovation. Far from so. Despite its antiquity, this field has grown with times and is now equipped with all the tools of modem technological developments including interactive programmes with information flow systems, virtual reality concepts etc., to face many new challenges. Several examples can be cited to prove this.

The first one is the exploitation of natural resources particularly water. The volume of water available from natural sources like rivers and lakes for drinking, irrigation, industry and power generation is rapidly dwindling. With the ever increasing population, the need has come not only to optimise the use of available water but also explore new avenues like recycling of industrial effluents and sewage and also tapping of new sources like ground water, desalination of sea water etc. In the current nuclear era, radio active tracers and ultrasonic sensors are used for detecting ground water sources and seepage losses from lakes and canals. Remote sensing techniques, infrared photographs and satellite pictures are used not only for identification of new resources over extensive areas but also for construction of dams, reservoirs and canal networks.

Urbanisation on a global level has resulted in an exponential growth in the need for accommodation, transport and recreation. With the available space and resources for construction dwin-

dling at an accelerated rate particularly in cities, the construction engineer is left with no opt but to resort to skyscrapers for providing accommodation. These high rise buildings have turn, created a variety of problems of planning, analysis, design and construction. The plan uses optimization techniques (including virtual reality concepts) for functionally efficient structu while the analyst and the designer rely heavily on interactive programmes to get accurate ma ematical solutions to these highly complex structural problems as well as complete working dr ings and design details.

With the traditional building materials in acute short supply there is a continuous quest for functionally efficient and cost optimal materials. Fibre reinforced composites, polymeric ad tures, nonferrous alloys etc. have all come in a big way as new substitutes. The necessity building in unfavourable sites like loose sand, marshy land and swelling soils etc. have also sulted in new soil stabilization and strengthening techniques, freezing, centrifugal compact geotextiles etc. Safety criteria against collapse of tall structures under worst possible combinat of forces caused by wind vibrations and earthquake effects have necessitated evolving of s norms and standards. All of them require substantiation by extensive model and site invest tions with the help of seismographs, vibrographs, accelerometers and spectrum analysers.

But the profession's repertoire is not limited to tall buildings only. Having risen to dizzy hei in skyscraper technology, this branch of engineering has also spanned other uncharted area well. It has spanned long distances through suspension bridges, covered large column free a for stadia, exhibition halls etc. through a fantastic variety of shell forms, burrowed deep ben the ground and sea-bed to construct wide networks of underground railway systems. Harb installations, offshore oil drilling platforms, free standing TV towers some with revolving res rants at the top, earthtracking stations for satellite communications, nuclear reactors and ro launching pads are some of the other modem structures of which the Civil Engineer can r fully take pride.

India is actively involved in this main stream of global construction activity. All these mo structures are being constructed on an extensive scale in our country too. In fact, construct continues to occupy the pride of place as the first and the biggest of our country's nation bu ing activity. But unfortunately, this position is not reflected in the attitude of to people towa the Civil Engineer. Being a man of the masses and not a high profile isolated administrator is not given the proper social status he deserves. This is rather unfortunate. For him the learning process starts after he comes out of the portals of the college and starts work at construction site. It is there that he faces professional challenges on a continuing basis, w can be solved only through initiative, motivation and continuous updating of his knowledg the relevant areas. Information superhighways, interactive programmes, use of virtual reali conceptualization, time and resource management and cost -optimization techniques are all s of the tools available to him to achieve the desired objectives. His is a profession where stakes are high and the clients will not be prepared to condone any errors.

But, despite all these multidimensional facets, it is unfortunate that interest is waning among present day student community for this highly challenging and versatile branch of enginee The major dichotemy seems to be the wide gap between the expectations of the fresh grad and the needs of the employers. The revolutionary changes that have taken place in this pro sion have not been duty incorporated in the curricula of Civil Engineering at all levels. The an overemphasis in terms of time and contents on many traditional and out moded to

of no immediate relevance to the construction industry. As a result, the employers that the fresh graduates are not directly employable to manage trend-setting projects and long periods of arduous training, which may even extend to several years before they independently manage such projects on an optimum cost - benefit basis.

this malady, a beginning can be made through a complete revamping of the existing to suit the changing needs of the times. The methodology and work ethics of the day construction industry have undergone revolutionary changes. The slow 'Concept - to process has now switched over to the 'Fast - track - mode' which necessitates quick decisions in various relevant inter - related - phases of the project to achieve the objectives of quality, speed and economy. The conventional programme per se is not to tackle this multidimensional approach.

resource mobilization plays a very crucial and pivotal role in all construction projects. in the updated curriculum there should be an effective course programme on Manage- of Construction Resources including topics like project evaluation, financial monitoring, cost cost escalation and control, profitability assessment etc. The course programme on and Design' should also concentrate more on real structures like bridges, buildings, systems, coastal and off shore structures rather than on classical theories and tra- outdated design methods. Methods of analysis based on reliability and probability procedures for 'smart' and 'high-tech' structures should form an integral part of the Materials technology with emphasis on new materials like polymer composites, carbon, and fibre reinforced laminates must also find its rightful place in the curriculum. Finally, of deteriorating structures being a global problem of the present day construction the student should be exposed to all aspects of the same. These will include condition distress mapping, nondestructive evaluation, materials and methods of rehabilitation rehabilitation assessment by signature analysis.

information superhighways can always be effectively used to continuously update these by incorporating the current trends and developments. If such a metamorphosis in the contents comes through, the student will not only appreciate the current high profile of of engineering but also be fully equipped to accept the challenges when he enters profession. Construction management is today rightly called 'Constraints Management'. It is academic institutions responsible for training the budding Civil Engineers and the em- waiting to gainfully employ them, to accept this changing scenario and rise to meet the needs and options. A stitch in time saves nine. If we don't do so, very soon India will be a large number of computer programmers but for the construction projects will be to import the expertise of qualified Civil Engineers from other countries. Let us listen to up call and act in time before it is too late.

The mind is like a fertile garden. It will grow anything you wish to plant beautiful flowers or weeds. And so it is with successful healthy thoughts or with negative ones that will, like weeds, crowd and strangle the others. Do not allow negative thoughts to enter your mind for they are the weeds that strangle confidence.

SUGGESTIONS FOR BUILDING A PC

PROF. Y. S. RAO
Asstt. Prof. (Electronics Dept.)

The toughest and most time-consuming part of building a PC is making all the right choices ab what you need and then buying all the parts. For this, plan what you need first and decide the parts and sub assembles. Be careful when you buy different peripherals and make sure they are compatible, and they have right cables.

Choosing the right cabinet: Cabinets play an important role in providing proper air circula for your computer. You cabinet should suit your motherboard size and it should have enough ro for expansion. Select a cabinet that has an SMPS that suits your requirements in terms of po and the number of outlets.

- Standard, horizontal desktops can accommodate up to four peripherals.
- Slim line cabinets used for diskless workstations.
- Mini-Towers have four bays for peripherals that require frontal access (CD-ROM and flo drives) and additional bays for HDDs.
- Large Towers have space to handle as many as nine drives and quite a few cards, use th for servers.

Motherboards: The upgrade path for your PC, particularly for the CPU is determined by y choice on the motherboard. Your choice today will decide not only the number of expans slots you have for future use, but will also limit your options of processor brands and bus spe Choosing an older motherboard could also keep you out of the game when it comes to peripherals and AGP cards.

- Motherboards come in a variety of sizes. Strictly defined by formal specifications. The m common sizes are the AT, Baby-AT, new ATX and mini ATX specifications.
- Much like your PC, which is generically referred to by the chip it contains, the motherbo is usually referred to by its chipset. The chipset usually consist of two (or more) chips, wh actually control the operation of components integrated onto the motherboard.
- Functions such as sound and video are integrated into many motherboards but these usually low cost options. This design has its limitation in terms of future upgrades. Op motherboards.
- Almost every new system comes based on the PCI base, ISA cards are becom increasingly rare.
- Type of memory and number of memory slots are vital aspects of your system.
- USB support is everywhere but the hot new bus technologies of today are AGP and fire w
- Other factors: IDE devices, PS/2 connector, power connector, switching regulator etc.

Right CPU: One way of classifying CPUs is according to their physical shape and the way plug on to the motherboard. We have two types of CPU for the desktop- Socket and slots1. So

came into existence with the Pentium processor. AMD Duron/ Athlon, PIII, Cyrix III, Celeron & IDT are also using socket A/ 370, type mounting. Slot 1 is used by PII and slot A by AMD & Pentium 4 (400Mhz FSB, 1.4 Ghz onwards) is using socket 370.

Memory:

- Check the type and number of pins (168 pins) for the DIMM sockets on your motherboard.
- The manual of motherboard specifies the minimum number slots to be filled.
- It's better to use fewer higher capacity DIMMs instead of blocking the slots with lower capacity ones.

Video cards: Display quality on your monitor is determined by two factors- screen resolution and color depth. The higher the resolution, the sharper the image, and the more the screen area you have to work on. Similarly, more the color depth, richer the graphics that are displayed. For a given monitor, the maximum number of colors that can be displayed and the maximum color depth possible are inversely related to each other and are dependant on the amount of video RAM on your graphics cards. Popular standards for resolution: 640 x 800, 800 x 600, 1024 x 768, 1152 x 1024, 1280 x 1024, 1600 x 1200, for colors : 256 colors, 65,000 colors, and 16.7m colors.

- Choose your card depending upon the type of applications you plan to use. For heavy graphics use a 3D accelerator card. For 810 or advanced version motherboards you don't need separate card!

Controller cards:

- An IDE card usually supports up to two HDDS (or one HDD and a CD-ROM drive) two floppy drives, two serial ports a parallel port and a game port. Pentium boards have all this on-board, you don't need separate card!
- A SCSI drive needs a SCSI card. Faster hard drives and CD- ROMs use SCSL.
- A Sound card is required for multimedia applications. If your motherboard is 810 or advanced version- you don't need a separate card!
- Try to get one that lets you watch TV in a window. Most TV tuner cards today come with remote controls that let you do everything that software can controls do, from controlling brightness and contrast to fine tuning channels.
- Other cards are available for various network architectures such as Ethernet, Token Rung, FDDI etc. as well as telephony and Fax/ modem cards.

Storage Devices:

- Hard drives: Applications available today (heavy graphics work or install packages require vast amounts of disk space. Opt for at least 10GB or 20GB. 30GB, 40GB with 10,000 rpm and data transfer rate of 100 MB/sec are also available.
- Floppy drives: The 3.5" format floppy drive is standard.
- Removable harddisk: It's a plug-n-play USB devices, 5.7cm long, it can store up to 16 MB.
- Backup devices available are QIC- format tape cartridge, lomega/HP Zip drives (250MB), and removable hard disks.

External:

Monitors: Monitor should be big. The minimum should be a 14" SVGA color monitor. Lo
for clear, rectangular picture, preferably with a flat screen. Low power, Power-manageab
monitors are good. Lesser the dot pitch, better it is. Higher end models offer 0.25mm. No
interlaced monitors score over interlaced ones. Today's monitors prefer digital controls w
on-screen displays over analog ones.

- Keyboard: The keyboard which is made up of membrane is waterproof and dustproof. T
most easily available is 101 keys type. USB Internet-ready and PS2 keyboards have additio
keys for e-mail, browser, sleep, wakeup and power. Wireless keyboards at a working distan
of 7 meters, +-45 degrees are available.
- Pointing devices: These are available either as mice or as track balls from Logitech, Micros
and Genius. Generally, for right-handed people it is the Microsoft mouse and for the left hand
ones the Acer.
- CD-ROM drives: The CD-RWs are considerably costlier than the CD- Rs. CD-Rs are compati
with most CD- ROM drives and standard audio CD players. CD-RWs are not compatible w
many CD- ROM drives and most audio CD players. Choose the drive based on internal driv
speed, software, and cache on board. Opt for 32x, 4MB cache CD-RW, or 52xCD-RO
- DVD- ROM drive: The second generation of DVD- ROMs is compatible with most ty
of CD- ROMs, including CR- Re writers. Opt for 16x DVD-ROM.



Are you looking to study in the United States?

Turn to the last page

Making the best of a bad atmosphere

RAMESH CHANDRASHEKARAN – TE (Mech)

travelling from here to Delhi by car. If you had to carry all the fuel and all the air required your engine, you will need to carry some 100-150 Kg. of fuel and an amazing 1400 Kg. Even if you carried fuel as liquid oxygen, all this and other consummables and up to hell extra weight.

situation is worse if you are planning a manned mission to Mars. Given that you have to on the surface of Mars for periods up to 400 days, (this is the time taken for realignment planets) the extra weight that you have to carry to live and return back is enormous. Also whole thing is risky because we have no backup. A simple puncture in a tank could risk lives Apollo 13).

NASA started to develop new technologies that aimed at insitu production of consummables such technology is the oxygen generator developed by Dr. K. R. Sridhar of the University Arizona (Tucson). Dr. K. R. Sridhar has done his BE(Mech) from Rec Trichy and MS (Nuclear & Phd from the University of Illinois at Urbana . He is also a professor & senior scientist NASA. The following are a few questions answered by him.

Q. Could you please describe your new technology. How does it work?

Ans. The new device aims to tip off oxygen from the CO_2 present in the Martian atmosphere. converts CO_2 into a mixture of CO and Oxygen by heating it to temperatures of around 750°C. of Zirconium oxide is used to separate the two gases on one side of the device, there is compressed Martian atmosphere; on the other we have pure oxygen.

Q. What about the CO? What are the chances of contamination of the Oxygen. What about possible pollution of Mars?

Ans. There are large number of sensors and redundancies to prevent any contamination of the Also future plans are to use the CO to produce a fuel by combining with H_2.

Q. Is this technology perfected? Has it been tested?

Ans. The science and engineering behind the device is atleast 10 years old. The device has been Mars-simulation chambers (wherein pressures & temperatures are simulated to match those Mars. The tests have been successful.

Q. So, when does this device go to mars?

Ans. It is to be mounted on the Mars surveyor to be launched in 2002. A larger version capable propellant (i.e. oxygen) is to be incorporated in the 2007 Mars Sample Return Mission.

Q. What are the challenges in such amission. How long will it take to generate enough propellant for the mission to return back?

Ans. The major challenges are miniaturisation and making the device to undergo the g-shocks, etc. Also the power available is very limited (around 15W for a breathing apparatus). time that it will take to produce enough fuel to return back is around 300 days (lesser than day stay planned).

Q. When will this device be ready to support human settlements?

Ans. In around 2 decades (intime for a manned mission)

HOME THEATRE SYSTEMS

AVDHOOT U. PARUL
SE (Electronics)

Entertainment electronic technology has undergone a profound change over the p decades. **Audio technology**, in particular, has come a long way since the development of su sound in the late 70's and we can expect similar growth in the future.

From the birth of audio in 1920's till the 1980's, the formats used in audio systems for films, tel hi-fi systems were readily recognizable. Different systems developed independently of one a The mono systems due to the stereo LP records introduced in 1985 were soon replaced b quality audio tapes and digital discs capable of multi-channel (surround) sound. Today th so many variations of multi-channel surround sound that even professional audio engine it difficult to keep track of them. Due to the sluggish development of audio technology i under developed countries, it has failed to hold the attention of audio enthusiasts.

Conventional systems are commonly believed to give ultimate sound reproduction in terms o imaging & three-dimensional sound. But this belief collapses in no time when one listens channel surround such as versions of Dolby surround sound.

My quest for an exclusive and untouched area of acoustics had led to this paper on "**Home** **System**". Here, I have tried to highlight a technique to fill the missing channels (namely **su** and **center**) to the exisiting stereo sound. It makes use of a processor which aims to give a theatre like acoustic effect in his living room!

The 'Dolby surround system' developed in 1982 has only three channels (left, right, su However, here we intend to produce four channels (left, right, center, surround). In the used for this purpose, the surround channel usually contains background information. Th right channels are similar to conventional stereo except that they do not do not contai action on the screen and dialogue, convention etc.

They are used only to produce left or right effects on the screen. Lastly here is the cente which usually contains dialogue, mono signals.

It is observed that in a concert hall, when music is just played, the listener first hears sound coming from the instrument (speaker) directly to him, which has the maximum a At the same time the sound reflects through the walls, ceilings etc. losing a little energy ar him. It may also reflect many times from the walls before reaching thus losing much of (i.e. reverberation). Hence the total sound heard by a person is a successive arrival of dir reflection and reverberation.

Room Environment & Set Up Of Speakers For Theatre Effect

Performance of the home theatre assembly unit it recognized by the following essential com

1. Home threatre processor: Dolby-Prologic (4-channels); Dolby Digital (5-channel)
2. Player: DVD/LD/CD payer
3. Satellite speakers: Main speakers–Tower speakers or Desktap speakers; Centre s Magnetically shielded; Surround/Rear speakers; Sub-woofers

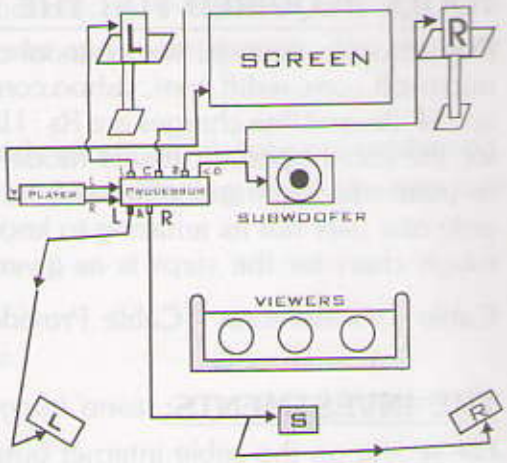
Voltage regulator or Spike Guard

Connecting Wires – low loss type.

The most important aspect of any home theatre or music system is the acoustic environment of the listening room. The aspect is neglected by many of the listeners or even hi-fi enthusiasts. They place speakers for the best bass response & frequency response. The speakers should be placed for the best overall response. Next is the treatment of the environment. The ceilings and the walls are the most important considerations for this, since they absorb, diffuse and reflect the sound. The room should be highly absorbent. There should not be any plain reflective surface in the listening area i.e. the room should be acoustically dead.

Speaker Placement

Speaker placement plays a very important role in getting the best out of the surround speaker.



A. Connecting The Main Speakers

For best stereo imaging, the two speakers should be equi-distant from your listening position and separated so that the angle between them and your listening position is 40^0 approximately. If your listening position is 8 to 12 feet from each speaker, the two speakers should be about 8 feet apart. Every room is different and so there is no hard and fast rule regarding placement. Nevertheless, don't hesitate to experiment.

B. Connecting The Rear Effects Speakers (Surround Speakers)

Rear speakers are more effective when placed at about head height. Place them straight across the room rather than down on the listening area thereby creating a more diffused sound field. If rear speaker stand is not available, mount them on the walls nearly 6 feet above the floor.

C. Connecting The Center Speakers

Place the center speakers close to the screen. As a result, the dialogue will always appear to come straight from the picture. This lets you place the left and right speakers widely for better music and sound effect.

A magnetically shielded centre speaker can also be placed on the T.V. set since a non magnetically shielded one may affect the colour of the T.V. set. This position firmly associates the dialogues with the listener position.

D. Connecting the sub-woofer speakers

These should be connected in parallel with the left & right channels.

As the human ear is not sensitive to low frequencies, the sub-woofer can be placed anywhere in the room. It is preferable to place the sub-woofer on the floor & facing the viewer.

CONCLUSION

The effective implementation of the fore-mentioned guide-lines will help one to achieve the best out of the acoustic equipments at his disposal so as to achieve an optimum quality of sound and vision. It has been my firm belief, that the success of technology lies not just in manufacturing state-of-the-art gizmos, but also in implementing and using them purposefully and optimally. The present paper has been a step in this direction.

CABLE INTERNET

PRAVIN DHE
S.E. (Elect

WHAT IS CABLE INTERNET:

Cable internet is just a means of connecting to the internet through the same co-axial cable you use for your television. It can be connected to your TV set or to the LAN card in your

TOOLS REQUIRED FOR THE TRADE:

Due to cable internet, the co-axial cable that brings you STARPLUS, ZEE, SONY etc will b microsoft.com, rediff.com, yahoo.com etc. The cable operator needs a leased line connectivity an ISP (leased line charges are Rs : 1 lakh). For the subscribers, to access a cable modem is req for the cable operator (cable modem : Rs : 15000). These modems have two connections to your television and other can be connected to your PC. Your normal net modem can only one user but its amazing to know that a cable modem can give service to sixteen users rough chart for the steps is as given below:-

Cable TV's Antenna - Cable Providers Setup - Cable Modem - Users

THE INVESTMENTS:

For setting up the cable internet business, the overall budget for the investments in this bus is very high (upto Rs : 30 lakh).

Leased line charges : Rs 13 lakh for 2 Mbps

Router : Rs 10 lakh,

Cables : According to the market, quality rate,

Cable modem termination system : Rs. 10 lakh for around 500 households, Splitters, amplifie

The huge cost problem can be solved economically by sharing between different cable oper But every cable operator will need a cable modem termination system (CMTs) that allows version between IP(Internet Protocol) and RF (Radio Frequency) signals. The routers at each will cost around Rs. 10 lakh, and then there's other software and hardware for billing, net management, authentication purposes. The cable operator who is interested to do this bus needs to invest extra for the wiring up each subscriber.

THE RETURNS:

The returns obviously, do depend upon the number of subscribers. The cost so invested covered from the subscribers and in addition to that online advertisements and e-commerce act are also expected to provide returns in the future.

THE BIG BULLS IN THIS FIELD:

Hathway, In2cable, Siti cable have been the early movers in the cable internet space. In2c which has around 4.5 million cable subcribers has already started cable internet business in M and will be launching soon in other cities too. Hathway is affiliated with around 2500 cable franc in eight major cities of India. Siti cable will soon be launching its whole cable network bu in the suburbs of Mumbai as well as in Navi Mumbai.

HEALTHY HOUSE : HAPPY HOME

BALRAM CHAMARIA - *BE (Civil)*
KEYUR PANDYA - *BE (Civil)*

Home... sweet home... so sweet it is. But what happens when the home in which you live is not safe?

While walking down the stairs or the lobby or when playing in the compound have you ever had a look at the condition of the building in which you stay? You will find some cracks and ugly sights here and there. Spare a thought for this: what is the cause and effect of this on the building? How can it be rectified? Dear friends, your building calls for repairs and maintenance. The structure of your sweet home is demanding repairs.

We can compare a building with a human body. As the body grows old it goes on weakening. The unauthorized and unscientific alterations, modification and overloading make the structure weak and drag the structure to collapse.

Common examples ---

- Covering the balcony and using it as kitchen, toilet, etc.
- Erecting partition walls at locations other than the designed ones.
- Chipping off beams and columns for interior designing.
- Using the structure for purposes for which it is not designed (for e.g. using a residential building as a godown).

When we get injured we apply medicine, if serious, we may get admitted to a hospital and get treated. Similarly, when the building in which you live gets old or weakened, it needs repairs. Any neglect in the building maintenance may lead to a huge loss of money and life.

Pre-construction attention

- Appointment of a proper consultant;
- Proper design approach (both structural and architectural)
- Selection of right agencies for different works.

Attention during construction (material, workmanship, supervision, etc.).

- Quality control and quality assurance.
- Advanced techniques of construction used.

Attention after construction

- Attention paid on maintenance, i.e. timely maintenance of leaking roofs, service lines, painting etc.
- Preventing or attending to removal of vegetations grown on buildings.
- Attention paid during extension and modification.
- The change in environmental conditions around the building.
- Overloading the structure or weakening its structural members due to alterations.

GENERAL PRACTICE

Normally some contractor who has good relations with the society people (especially Secret... Chairman, etc.) is given the work for repairs of the building. In some cases contractors are dire... asked to quote the rates and work is given depending on the rates quoted. This approach seems to be very easy and straight forward. One feels that one has saved the ... necessary expenditure of appointing a consultant. But the facts are different. Saving on the c... sultant's fees may lead to the following consequences :

1) You never know whether the work is done correctly or not.
2) You do not know the scope of the work.
3) One is not sure whether the expenses incurred are really worth or not.
4) There is nobody to control the contractor.
5) You risk your structure by giving it in the hands of a contractor who is generally not quali...
6) Nobody knows about the quality of the work.

On the other hand, repair work with the consultation of an engineer has the following pe...

1) All the above points are covered.
2) You get expert opinion for the repair of the structure.
3) Value for money.
4) No headache to society members about the work.

It is a proven and observed fact that consultants may give benefits more than ten times you sp... on them (Benefits in terms of quality, peace, satisfaction and money).

THE RIGHT PRACTICE

How do we start repairs?

It is very important to appoint a consultant or an engineer for repairs. Physical examination ... testing of the structure is first done and the areas of weakness are identified. Testing may h... in identifying areas, which need no repairs, and the areas that need urgent repairs. The engi... estimates the cost by preparing a bill of quantities of various items/areas of repairs. He also g... notes and recommendations about the repairs of the building.

How to appoint an engineer ?

The process is quite similar to identifying a medical practitioner when you have health probl... The important point is that you should have confidence in whomsoever you have appointe... the consultant. However, never go by publicity, video film shows, speeches and promises. ... earlier works and ascertain from the occupants the performance of the consultant you are op... for. A small exercise in this direction will help considerably.

Whom to appoint ?

Normally people go for an architect as a consultant for building repair work. An architect ca... visualised as a beautician and an engineer as a physician. As a structural or civil engineer ... a better knowledge of the structural behaviour and other repairs aspect than an architect. ... suggestion is to go for a competent structural or civil engineer.

Appointment of a contractor ?

Normally tenders are invited from various contractors and they are compared with the help of an engineer. The short-listed candidates may be then called for negotiations and before finalising, the quality of work of the contractor is assured.

It must be remembered that the LOWEST offer may not be the BEST offer.

The engineer should have enough judgement to choose the right kind of contractor.

What the engineers do for you ?

They act as a link between you and the contractor. The various works, which consultants do are

- Inspection and testing of structure before repairs and giving estimates and recommendations.
- Preparing tender.
- Selection of contractor and finalization of rates.
- Supervision and control of contractor's work.
- Get the work done as per the priority in a sequential order.
- Certifying the bills.
- Keep control on cost of work etc.

For these services engineers charge some nominal amount, which may be 2% to 10% of the repairs cost depending upon the type of work and various other factors. It is always a wise move to spend some amount on engineers as it has manifold advantages. There are high benefits in terms of money, value and life of your structure and this can be realized during and after the repairs.

CONSIDERATION TO EARTHQUAKES :

Earthquake is a hot issue today. When an earthquake occurs, the building/structure that is already weak will fail first. Here again we can visualize the importance of timely repairs.

A structure that is timely repaired and in good condition will resist an earthquake in a better way. Now to live with fear of falling of a building in an earthquake (minor) or to live with confidence in a healthy structure is your choice.

CONCLUSION :

This article does not cover the various aspects and recommendations for repairs in depth. It just gives the importance of timely repairs of the building and the role of a consultant/engineer in it,.

It is important to endeavour to stay and work in a safe place. Repairs carried out in time are more economical plus it gives priceless relief to the people who are otherwise staying in a badly dilapidated structure. The old saying states "a stitch in time saves nine". For a building, it should be "Repairs in time save 99 and property work Rs.99 millions".

The unfortunate people who have lost their near and dear ones along with their precious belongings and property have to stay in transit camps for several years and look out for other alternatives knowing fully well that justice will not be done to them at least in their present lifetime. After all there is nothing more valuable than life.

PRODUCTION OF LIQUID NITROGEN

RAHUL CHILL
SE (Mechani

We all must have heard about gases being liquefied at extremely low temperature for v ous cryogenic applications. The most important gas being Liquid Nitrogen. But ever p dered over how this is achieved. Well here are some details about LINIT used to liqu nitrogen used all over India. The Liquid Nitrogen [LINIT] plants produced by Linde C genics Ltd. are suitable for installation anywhere in the world. The free standing units capable of producing up to 45 litres per hour of liquid nitrogen in ambient temperat between 3 and 45 degrees centigrade. Efficient filtering and drying facilities within the p ensure that they will operate under all normal environment.

OUTLINE OF LINIT SYSTEMS

General

LINIT generators are of modem modular designs using cryogenic turbines as the refrigera source. The equipment is specifically designed for completely automatic, unattended op tion. The standard plant requires no special foundation, no cooling water and no specia frigerants. The only requirements are for a 3-phase electrical supply and air. Atmospheric provides the ventilation, the proc fluid and the raw materials which the liquid nitrogen is produ Liquid may be produced at at pheric pressure or at elevated pres up to 2 bars.

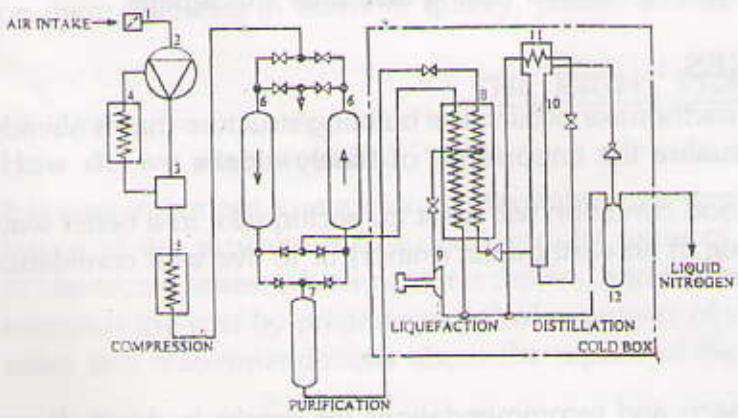


FIG. 1.1 SIMPLIFIED FLOW DIAGRAM

Principles of Operation

A simplified flow diagram in fig shows the four basic stages of op tion. These four stages comprise co pression, purification, liquefaction distillation.

Compression

Atmospheric air is drawn into the intake [1] before entering the compressor. The air co screw compressor [2] compresses the air to a pressure of 10 bar g. oil is allowed to with the air to assist in the compression process. This oil is removed as the pressurized oil mixture passes through the oil separator [3]. The oil returns to the compressor thro the oil cooler [4]. After oil removal, the compressed air is cooled in the after cooler before entering the purifier.

compressed air leaving the compressor has a high moisture content and also contains amount of impurities. Before it can be allowed to pass into the liquefaction and systems, it must first be cleaned and dried. Both of these functions are carried in the purification system.

unit comprises of twin desiccant chambers [6] of which is capable of absorbing carbon dioxide and water vapour from the air. The airflow is switched automatically to through either chamber. At the same time, the remaining chamber undergoes a purging which regenerates its desiccant. Having passed through a desiccant chamber the air then passes through the secondary absorber [7] Which will remove any re- hydrocarbons.

being compressed, dried and cleaned, the air must then be liquefied. For gaseous air to be turned into liquid its temperature must be greatly reduced. This temperature reduction occurs in a heat exchanger, which is situated within the insulated enclosure known as the cold box.

The air is cooled and liquefied as it passes down through the heat exchanger [8]. The re- for the heat exchanger is produced by a side stream of high-pressure air via the inlet valve, into the turbine [9] where it is expanded and cooled before returning to the heat exchanger. Remaining high-pressure air continues down the heat exchanger in flow with the low-pressure stream and, as a result, is partially liquefied. This gas air mixture then passes through an expansion valve to the distillation column [10].

The distillation process separates gaseous nitrogen from the liquid air and re-condenses it to liquid.

liquefied air enters the bottom of the distillation column. Liquid from the bottom is expanded and cooled at a throttle valve and supplies the cooling stream to the [1] and is returned as vapour to the low pressure pass of the heat exchanger [8] vapour in the column rises and is condensed in the condenser. As the oxygen con- at a higher temperature than the nitrogen, there is a progressive enrichment of nitro- almost pure nitrogen condenses in the condenser. Part of this liquid condensate is through a control valve leading into a sump [12] from which liquid is drawn off the "product".

may seem very easy but the head of Low Temperature Facility of TIFR where such plant is quotes "even if you work on this plant for 10 years you won't know all functioning".

ENCRYPTION

MAYUR UDERN
TE (Compute

With the advent of the web and networking and increasing hub of e-commerce, the need for se of data has emerged as a major concern for software professionals. This article addresses one of the solutions of "secure" data transmission, namely ENCRYP and explains some of its basic concepts.

1. What is encryption?

Encryption is the transformation of data into a form not readable by anyone without a decryption key. Its purpose is to ensure privacy by keeping the information hidden from a for whom it is not intended, even those who can see the encrypted data.

In a multi-user setting, encryption allows secure communication over an insecure chann general scenario is as follows:

"A" wishes to send a message to "B" so that no one else besides "B" can read it. "A" the message, which is called the plaintext, with an encryption key; the encrypted m called the ciphertext, is sent to "B". "B" decrypts the ciphertext with the decryption reads the message. An attacker, "C", may either try to obtain the secret key or to rec plaintext without using the secret key.

In a secure cryptosystem, the plaintext cannot be recovered from the ciphertext except the descryption key.

In a symmetric cryptosystem, a single key serves as both the encryption and decryp

2. What is public-key cryptography?

Traditional crytography is based on the sender and receiver of a message knowing the same secret key: the sender uses the secret key to encrypt the message, and th uses the same secret key to decrypt the message. This method is known as "s cryptography. The main problem is getting the sender and receiver to agree on the without anyone else finding out. If they are in separate physical locations, they m courier, or a phone system, or some other transmission system to not disclose the being communicated. Anyone who overhears or intercepts the key in transit can all messages encrypted using that key.

Public-key cryptography was invented in order to solve the key management prob new system, each person gets a pair of keys, called the public key and the privat person's public key is published while the private key is kept secret. The need for receiver to share secret information is eliminated. All communications involve only and no private key is ever transmitted or shared.

Here's how it works for encryption:

When "A" wishes to send a message to "B", she looks up "B" 's public key in a directory, uses it to encrypt the message and sends it off. "B" then uses his private key to decrypt the message and read it. No one listening in can decrypt the message. Anyone can send an encrypted message to "B" but only "B" can read it. Clearly, one requirement is that no one can figure out the private key from the corresponding public key.

Here's how it works for authentication:

"A" to sign a message, does a computation involving both her private key and the message itself; the output is called the digital signature and is attached to the message, which is then sent. "B", to verify the signature, does some computation involving the message, the purported signature, and "A"'s public key. If the results properly hold in a simple mathematical relation, the signature is verified as genuine; otherwise, the signature may be fraudulent or the message altered, and they are discarded.

What are the advantages and disadvantages of public-key cryptography over secret-key crytography?

The primary advantage of public-key crytography is increased security; the private keys do not ever need to transmitted or reversed by anyone. In a secret-key system, by contrast, there is always a chance that an enemy could discover the secret key while it is being transmitted.

A disadvantage of using public-key cryptography for encryption is speed. There are popular secret-key encryption methods which are significantly faster than any currently available public-key encryption method.

Epilogue:

For encryption, the best solution is to combine public and secret-key systems in order to get both the security advantages of public-key systems and the speed advantages of secret-key systems. The public-key systems can be used to encrypt a secret key which is used to encrypt the bulk of a file or message.

MODERN ELECTRIC VEHICLE AND IT'S ELECTRONIC CONTROL

DEEPAK P. MAHAJA
TE (Electrical)

Recently a rekindling of interest in electric vehicle (EV) has taken place in response to concer about stringent pollution control law, energy cost and energy dependence. The technologies involv in EV's include chemical, mechanical, electrical and electronics engineering. Coupling electro chemi batteries with electric flywheel or ultra capacitors, it is possible to deliver surges of power as hig as 1000 W/kg which is more than an ordinary internal combustions engine.

1) SALIENT FEATURES OF A TYPICAL ELECTRIC CAR (RECENT DATA)

Weight kg	:	900 to 1300
Top speed km/m	:	100 to 130
Accl km/hr	:	0 to 50 in 4 to 6 sec
Range in km	:	150 a 70km/hr.
Battery type	:	Pb - acid, NiCd, Na-S
Voltage, V	:	200 to 300
Energy capacity, kw.h	:	10 to 20
Motor	:	Induction PM brushless D C motor
Transmission	:	Planetary gear
Battery weight in kg	:	200 to 300
Converter type	:	MOSFET/IGBT based

2) BATTERY COMPARTMENT:

The batteries will be housed in a hollow structure made of extruded aluminium alloy. It also serve as a load floor and chasis of the vehicle, optimising space utilization. As there is tail pipe and the components below the chassis and the underside of the vehicle are flat, air d will be minimized. Batteries are housed away from the crush zone. Sealed lead acid batteries generally used.

3) BATTERY CHARGING:

This can be done with the help of on board charging system where weight should not exc 6kg. The charging time will be about 8 hours and charging current is limited to 15 A. Regul ac and dc inexpensive converters with high power density are used. The on board charger in vehicle is connected to domestic single phase ac plug for slow night charging time.

Solar cells can be fixed on the vehicle roof as an auxiliary device which will charge the device during parking in open yard, which will increase mileage/charge. During deceleration or down hill motion the driving motor can be used as a generator through regenerative braking.

If on the highways charging devices are installed in petrol pumps then the range of EV's can be unlimited. A microprocessor controlled 3 phase off board battery charger with high current capacity may be provided.

MOTORS:- ELECTRIC DRIVES FOR EV's

i) **(PM) D.C. Motor:-** Permanent magnets provide the motor with life long excitation at low cost. PM dc motors with (NdFeB) magnet provide good performances over 12000 rpm without any need of gear ratios. They are available in miniaturised sizes but have increased maintenance due to commutator and brushes.

ii) **Standard I.M. (Induction motor)**

Maintenance free operation of these motors is a prime consideration in EV propulsion system. The conventional variable voltage variable frequency (vvvf) can not provide the desired performance, but microcomputer field oriented control (FDC) of an induction motor, however, gives the desired performance.

iii) **P.M. Synchronous motor:**

It has the advantages, namely, high efficiency, high stability, smooth brushless operation and simple rotor construction. Absence of rotor copper loss at synchronous speed makes it highly efficient, but high energy Nd-Fe-B magnets increase the cost of the motor.

v) **Electronic Controller**

Conventional linear control cannot meet the requirements of high performance EV's modern control like Self Tuning Control (STC) and Modd Reference Adaptive Control (MRAC) have been successfully used in EV propulsion.

In order to implement modern control strategies powerful hardwares like microprocessor, Microcontroller, Transputer, digital signal processor (DSP) etc. are used.

BLUE TOOTH

RAHUL V. BHANDA
TE (Electronics

Well... So what is Bluetooth? You've heard it in seminars, you've read it in the latest issues of electr magazines and you've come across it on the Internet. What is it? Is it software or hardware? W does it signify and why is it so relevant today? How did it originate and where is it headi is some of these questions that I endeavour to answer in this article.

INTRODUCTION:

Bluetooth was invented in 1994 by L. M. Ericsson of Sweden. It is named after Harald Bla "Bluetooth" II, King of Denmark 940-981 A.D.

Bluetooth, simply put, is a technology. A technology that has the potential to change, in fact u the worlds of computing and telecom, as we know them today. It is the name given to a technology standard using short-range radio links, intended to replace the cables connecting po and/or fixed electronic devices, eg: laptops, mobile phones, desktops PCs, LANs etc. The sta defines a uniform structure for a wide range of devices to communicate with each other, with m user effort. It means a total end to the cables that connect all your electronic items. Just im a printer that works without any visible connection to the PC!!! Or a mobile phone that auto cally updates your PC and connects to your LAN !!!

IMPLEMENTATION:

The implementation, from a very basic point of view, is actually quite elementary. A tiny Blue microchip, incorporating a ratio transceiver, is built into digital devices; thus enabling the Blu capable devices to communicate with each other as long as they are within range (approx but can be extended to 100m). But the ingenuity of this system lies in the fact that any n containing Bluetooth devices is dynamic. This means that any Bluetooth capable device can est a connection and "talk" to any other such device that lies within its range. The connec automatically lost when either device leaves the range. These dynamic networks are refe as 'piconets'. The profiles specifications of a Bluetooth device specify that the Bluetooth co module should store addresses of all devices in proximity and the addresses of devices with links are open.

APPLICATIONS:

Thus, Bluetooth is more than just a cable replacement technology. Various innovative usage have opened up new areas where Bluetooth can be used. The Bluetooth technology su access to other networks. This is done by recognizing and connecting to different types of n through a Bluetooth connection. So I can easily and instantly connect to the Internet via a

any Bluetooth enabled wire bound connection. All the Bluetooth enabled devices to automatically exchange information and synchronise with each other. Eg: if you appointment on your hand held device, the appointment is automatically accepted in PC as soon as the two devices are within range of each other. Devices can connect proximity almost without any user command or interaction. This allows utilization of information recourses for the benefit of the user.

RITY:

wireless technology has built-in sufficient encryption and authentication and is thus very environment. In addition a frequency-hoping scheme with 1600 hops/sec is em- Although, the entire security setup is beyond the scope of this article, it basically uses and encryption keys to make eavesdropping almost impossible. All of this, together automatic output power adaption to reduce the range exactly to requirement, make the absolutely secure.

NTAGES:

these, there are certain inherent advantages in the Bluetooth technology that make It will enable users to connect a wide range of computing and telecommunications devices and simply, without the need to buy, carry, or connect cables. It delivers opportunities for hoc connections, and the possibility of automatic, unconscious, connections between devices. eliminate the need to purchase additional or proprietary cabling to connect individual Because Bluetooth wireless technology can be used for a variety of purposes, it will also replace multiple cable connections via a single radio link. It creates the possibility of data in a different way, for different applications. It will allow them to think about they are working on, rather than how to make their technology work.

however aks – Why not simply build phones into mobile PC's? A valid question. However are several. For one, the cost to too high. Also there are many diferent phone standards from. There is no standard that is universally available around the world. Finally, the model for mobile PCs does not match that of phones.

CAL CHALLENGES:

has to use an unlicensed band for universal acceptance and usage. Thus the Industrial, and Medical (ISM) band has been selected for Bluetooth. The challange here is to make robust to interference from other sources in this band, which include not only ISM band cation systems but also microwave ovens.

ivers should be able to adapt to a rapidly changing environment, as the devices will be mobile. The well-known problems in wireless systems such as multipath fading must Also, the connection establishment and routing protocols have to operate in an

environment where the number, location and variety of Bluetooth devices will change dynami with fair amount of rapidity.

The size of the implementation should be small for easy integration into handheld and m devices.

The power consumption should not be more than a small fraction of the host device into w the Bluetooth capability is to be introduced.

Automatic and unconscious connection establishment must be provided. The number and ide of devices in proximity will change quite frequently and it will be very inconvenient to esta connections manually each time. Also, the number of devices will be too large for most use be able to remember or search the device address of the device they need to connect to Se considerations have to be satisfied. The Bluetooth devices will be part of people's personal and will contain and communicate their personal information, sensitive business informati other data which must be protected being spoofed or mutilated. Encryption facility must th provided among other security features.

Thus we can see that, just as with any new technology Bluetooth has its own challenges th need to be resolved before people like you and me can avail of the benefits it has to offer. B me, that time is not too far away. In fact, in order to overcome the above-mentioned chall a few companies started the Bluetooth Special Interest Group (SIG).

SPECIAL INTEREST GROUP (SIG):

The Bluetooth SIG is a group of companies, led by telecommunications and computing in leaders, working together to define and promote an open, royalty-free specification for se wireless connectivity and cable replacement for a wide variety of mobility-enhancing devi February 1998, five companies–Ericsson, Nokia, IBM, Toshiba and Intel formed a Special I Group (SIG). The group contained the right mix of buisness areas. 2 market leaders in telephony, 2 market leaders in laptop computing and a market leader in core digital-signa essor technology. The goup is now promoted by 3Com, Microsoft, Lucent and Motorola also than 1900 companies have joined the SIG.

Thus, the Bluetooth technology is all set to root itself in the world tomorrow. If at the out potential seems enormous, one can imagine what such a technology portends for the future. Es for budding engineers like us, the technology is tremendous for it shall automate, conn completely revolutionise the world tomorrow.

Through this article, I have tried to explain the Bluetooth technology simplistically. Thro technology and its associated hardware are quite sophisticated, it is it's applications and impl that are probably the most awe-inspiring. I hope I have been able to do justice to the topic compromising on lucidity.

THE THEORY OF STRINGS

ASHISH DESHPANDE
TE (Electronics)

INTRODUCTION:

String theory also known as the M-Theory, is a step further in the quest for "unification of physics". ...to describe the universe all in one go. This journey for unification began with Isaac Newton ...he first unified the findings of Copernicus and Galileo in his famous "Laws of Motion". ...to follow was Einstein's "Theory of Relativity". Today scientists describe the universe in terms ...theories- the general theory of relativity and quantium mechanics. The general theory of ...describes the force of gravity as the large scale structure of the universe. Quantum mechanics- ...other hand deals with the phenomena on extremely small scales. Unfortunately, these two ...are inconsistent with each other. String theory is an attempt to bridge the gap.

...String Theory?

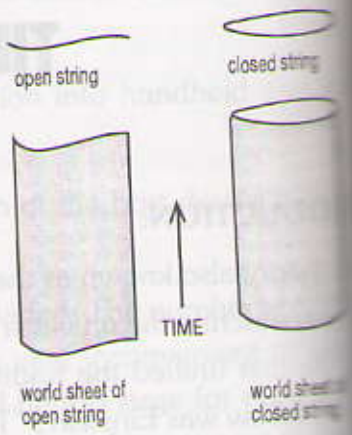
...were not really comfortable with the fact that an electric charge, or magnetic pole can ...effect at a distance, without any medium seeming to connect the two points. It was around ...problem that the idea of a "field" was introduced. The field theory was able to explain in a ...way all phenomena associated with electricity and magnetism up to a point. This classical ...theory breaks down at very short distances or in the presence of very strong fields. The de- ...opment of quantum field theory later came up with the concept that forces resulted due to ...change of particles that carried the force. This was also verified when the "photon" was found ...the particle associated with electromagnetic field. Likewise every fundamental interacting ...has a mediating particle. To gravitation we associate the "graviton".

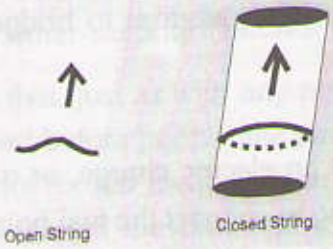
...should there be such a profusion of fundamental forces and matter particles? Electrons, ...neutrinos, gluons, graviton... it is disturbing if these are to be considered the ultimate con- ...of matter. Moreover, the Standard Model was unable to explain the graviton and its in- ...and without gravity the model is seriously incomplete. This is where String Theory comes ...picture.

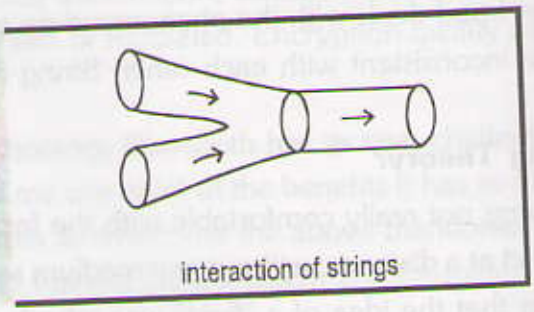
...String Postulate:

...theory uses the idea of excited states of a string. If a violin string is plucked it vibrates in ...harmonic frequencies. In string theory particles are treated as the vibrations (excitations) ...strings' of the dimension of the order of 10^{-33}cm.

The string can be like a loop, or open with two free ends. Just as a particle has intrinsic mass, a string has intrinsic tension. The different modes of oscillation behave as elementary particles with different masses related to the frequency of oscillation. As strings move through space they sweep-out an imaginary surface called 'world sheet'. Any point on the world sheet describes the position of the string at a particular instant of time. Strings interact by splitting and joining. The emission or absorption of one particle by another corresponds to the dividing or joining of strings.







A string is a collection of infinitely many point particles and hence effectively has infinitely degrees of freedom. Researchers have found that strings can exist only in a world with 25 dimensions (rather than 3), plus time.

The string has an additional unpleasant feature. It's spectrum consists of one particle whose is an imaginary number- a "tachyon" generally believed to be an unphysical object.

However after the tachyon another particle in the spectrum was a spin-2 particle with zero mass, which was just the missing ingredient in the search for fundamental description of the graviton. It is due to this breakthrough that string theory is so important. Hence, inspite the absurdities the string theory is found to contain a promising solution for the problem gravity.

❖ Some act till they meet obstacles, others act inspite of obstacles, and conquer them, but some act not, fearing the possibility of some obstacle, that might arise enroute.

YANTRIKI 2000 : AN EXPERIENCE WORTH IT

MOIZ SHABBIR TANKIWALA
SE (IT)

I am sure you all must have watched 'Small Wonders' on Star T.V. and must have been fascinated by Vicky, the human like robot. Well!. Well Robotics is really fascinating. Here I would hasten to add that all robots need not have two arms and two legs or a human like body that we usually associate robots to be like. On the contrary they may have shapes and sizes suited to the work they are put to.

The making of robots requires more practical experience as compared to theoretical calculations. Keeping this point in mind, Prof. C. Amarnath of IIT Bombay introduced Yantriki, a robotics competition a few years ago. But today it has become very prestigious pulling participation from all over India.

This year 'Yantriki 2000' was unique, in the sense that for the first time the robots had to compete in water. The robot had to be designed to play water polo in a tank filled with water with 10 table tennis balls placed in the centre of the tark at the start. Two teams would play against each other and the robot scoring the maximum number of goals at the end of 3 minutes would be the winner of the match. In addition to the usual match, the machines were also judged for engineering innovation, design and aesthetics.

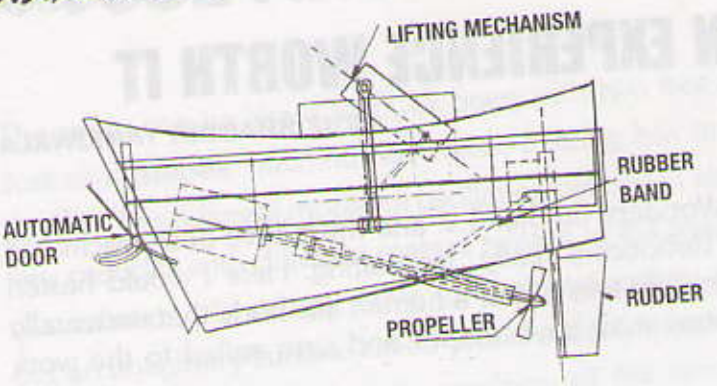
Having had past experience of science projects failing right at the moment of judgement, we decided to build a really sturdy robot. We decided to go in for a boat shaped robot, due to its streamlined shape. It would minimise water resistance. We built the boat shaped body from sheetmetal (F.E. workshop skill put to use, you see !!). Since it was easy to work with sheetmetal and it would make the boat very sturdy. For forward-backward motion, we used a bidirectional motor connected to the propeller by a shaft. The rudder, for steering the boat was controlled by two electromagnets. A net was attached to the boat to collect the balls and it was connected to a mechanism that would lift it, so that it would empty the collected balls into the goal.

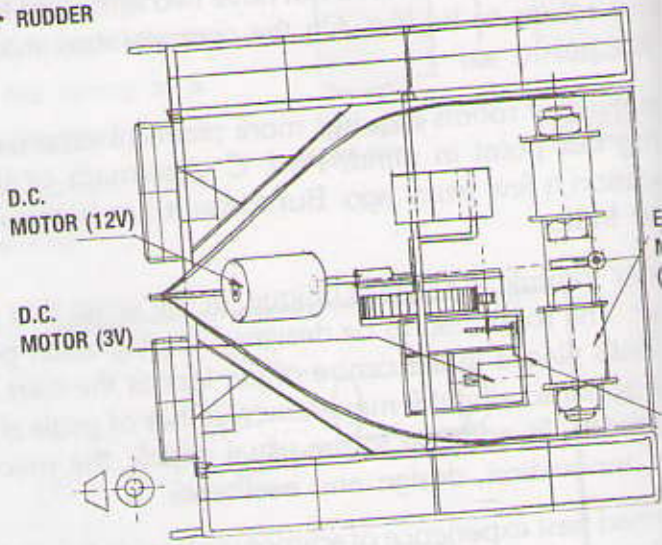
In the first elimination we realised that the boat was not balanced properly and the net was too heavy. After correcting these mistakes, when we reached the second elimination rounds, the coupling, made of insulation of an electric wire, between the motor and the shaft became loose. We had to come back and correct it. Finally for the third elimination rounds (the final one), our boat did very well and we were seeded 13th from a total of about 80 teams.

After the elimination, began the knock-out rounds. In the first knockout round we defeated an IIT robot, a big achievement (that is what we think). However in the second round, we lost. And that too, not because of machine failure, but because of lack of manoeuvring tactics.

Though we had lost the match, we weren't disappointed since we had gained a lot from the competition. We had made a lot of new friends, had gained enormous new ideas that different teams had used to make their machines & the different types of materials they had used and much more. And on top of that the experience of building a robot and that too as a team was very satisfying.

Though one most always aim to win, at the end winning or losing becomes unimportant, but what matters is taking part, and I am sure more SPC'ites will take part next year in Yantriki 2001, all ready to take on the IITians.





With Best Compliments From :

Tata Investment Corporation Limite

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HACKER VERSUS CRACKER

RASHMI SONTHALIA
TE (Comp)

With the growth of the Internet, computer and network security has become more important than ever. Increasingly, we hear of malicious individuals breaking into corporate and government computer systems around the world. The media calls these people hackers. That description is not entirely accurate. Within the subculture of computer hobbyists and software enthusiasts, the term hacker usually refers to a particular kind of programmer. A cracker on the other hand is someone who breaks into computers, often to do something malicious.

In short a hacker is someone who programs creatively and usually for the pure enjoyment of it. The correct term for someone who breaks into computer systems is a cracker.

There are many types of crackers, ranging from professional computer criminals to the hobbyist crackers who do it for the thrill. The growth of the cracker problem has kept pace with the growth of the Internet. A new, younger generation of cracker is emerging. These teenage pseudo crackers do not have all the knowledge and skill of their true cracker counterparts, but they have access to a growing number of cracker tools that automate the breaking of a system's security.

By using programs and scripts created by the truly talented crackers, youngsters can often break into systems without really knowing the details of how it is done. Because they are usually rather young and mostly dependent on tools provided by others, they are sometimes referred to as script kiddies. Make no mistake, if your system is not properly secured, scriptkiddies can do just as much damage as any other cracker.

Whatever you call them, crackers pose a serious risk to anyone connecting a computer to the Internet. Their reasons for breaking into systems are varied; some hope to steal financial information, others break in to gain bragging rights among their peers. Often a system is broken into solely for use as a stepping off point to launch further attacks on other systems. In some cases, the damage may be as little as an altered web page, the Internet equivalent of graffiti. In other cases, the cracker may wipe out your entire hard drive to cover his or her tracks. Fortunately there are ways to protect yourself.

What is a Hacker?

Hacker can be defined as:-

A person who enjoys exploring the details of programmable systems and how to stretch their capabilities, as opposed to most users, who prefer to learn only the minimum necessary.

One who programs enthusiastically (even obsessively) or who enjoys programming rather than just theorizing about programming.

A person capable of appreciating hack value

A person who is good at programming quickly

An expert at a particular program, or one who frequently does work using it or on it.

An expert or enthusiasts of any kind. One might be an astronomy hacker for example.

One who enjoys the intellectual the challenge of creatively overcoming or circumventing limitations.

[deprecated] A malicious meddler who tries to discover sensitive information by poking around. Hence password hacker, network hacker. The correct term for this sense is cracker.

So SPC'ites wanna be a
HACKER OR CRACKER?

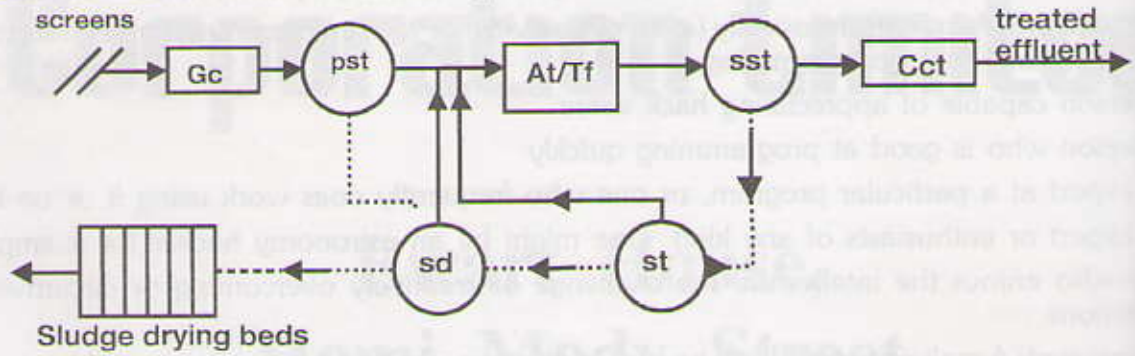
DESIGN OF EFFLUENT TREATMENT PLANT USING C++

LOKESH PADH
BE (Civil)

Computers are used extensively in almost all fields. In this competitive world, knowledge of softw is very essential for the Civil engineers. Computer applications are now being applied to Civil e gineering where softwares such as Autocad. Recad, Stad and widely adopted. Softwares are a available for the estimates of building, surveying, structural analysis and design.

Similarly, in the field of the Environmental Engineering a software has been developed for t 'Design of Effluent Treatment Plant" by Dr. M. M. Kulkarni, Asst. Professor, Civil Engg. De This software was available freely on his home page: **http: \\education.vsnl.com\mmkulka** in the year 2000. This software was developed using C++ as a programming language. The m purpose of using C++ is it's feature to support 'Object Oriented Programming' (OOP). The O has got distinct features such as programs divided into objects which are easily manageable. Empha is on data unlike is procedure oriented languages where emphasis is on procedure. Objects co municate with each other through functions. Also new data and functions can be easily ad whenever necessary. Thus, above features of OOP make C++ a more suitable language developing this software.

Domestic or industrial waste water before being disposed off either in river streams or on l has generally to be treated so as to make it safe. This treatment is carried out in the Effluent treatm plant. The various stages involved in the treatment are preliminary, primary, secondary or b logical, and tertiary or final stage. Preliminary treatment consists solely of separating the floa materials and also heavy settleable inorganic solids. Screens, grit chamber and skimming ta come under this treatment. Primary treatment involves removing large suspended organic so which is accomplished by sedimentation in primary sedimentation tank. Secondary treatment inv biological decomposition of organic matter which can be carried out either under aerobic or unae conditions. Trickling filters, aeration tanks, oxidation ponds etc. come under this treatment. T final treatment consists of removing the organic load left after the secondary treatment and p ticularly to kill pathogenic bacteria. This treatment is carried out by chlorination. Thus the b diagram for modern effluent treatment plant is shown below-



Gc-Grit chamber, pst-primary sedimentation tank, At-Aeration tank
Tf-trickling filter, sst-secondary sedimentation tank,
Cet-chlorine contact tank, sd-sludge digestor, st-sludge thickener

ING C++

LOKESH PADH
BE (Civil)

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software consist of separate programs for each unit and all these programs have been
orporated in the single program to form a main program. Every unit is designed on it's specific
ature. Such as screens are designed for limiting velocity, grit chamber is designed by Schield's
rmula for critical velocity, primary and secondary sedimentation tanks are designed on the basis
detention period. As all the programs are linked to form a single program, some global variables
re declared at the start of the program like peak flow, suspended solids concentration, BOD
ncentration etc.

The term Biochemical Oxygen Demand (BOD) has got great significance in effluent treatment.
The organic matter is of two types; i.e. that which can be biologically oxidized and is called bio-
degradable and other which can not be oxidized biologically and hence is called biologically in-
active. BOD is defined as the amount of oxygen required to fully oxidize the biodegradable or-
ganic matter present in waste water with the help of microorganisms. Thus by knowing the
BOD requirement of waste water, amount of treatment required to be given to waste water can
be determined. For waste water having high values of BOD, thorough and extensive treatment
is required.

Thus while designing, user has to enter these global parameters. Then user is asked to enter the
option for designing. After selecting the proper option, design will be carried out and then user
again gets the option to design other unit or quit. Thus the choice of designing complete treatmen
plant or individual units lies with the user. User has got the freedom to input the values of his
choice but for proper guidance to new user 'ranges of values' are specified. As many units have
been designed, the user has got a wide choice to select unit of proper shape and capacity. Fo
example in pst, user can design it as either circular or rectangular. Also in secondary treatmen
he can either opt for trickling filter or activated sludge process. The provision for out of range value
is also made by properly displaying messages and also specifying the parameters which are ou
of range.

As far as application of the software is concerned, this software is very much useful in the fiel
of the Environmental engineering. It is specially useful for industries, as most of the industries hav
to develop their own effluent treatment plants so as to meet the standard of effluent as specifie
by authorities like municipal corporations or state governments. It is also useful to big societie
or public buildings which require one or two units of treatment plant like septic tank or imhof
tank. As the software is user friendly, efficient, concise and includes design of most of the unit
used in modern treatment plant hence we hope that it will be useful and will be widely adopte
in the field of the Environmental engineering.

ACKNOWLEDGEMENT

*The guidance of DR. M. M. KULKARNI was very much useful for development of this softwar
Also books like 'Object oriented programming in turbo C++' by Robert Lafore, 'The C++
programming language' by Bjarne Stroustrop, 'using C++' by Bruce Eckel and 'Environmental
engineering (volume II)' by S. K. Garg were used extensively for references.*

TOTAL QUALITY MANAGEMENT [TQM]

KEYUR D. PANDYA, RAHUL N. PAREKH – BE

The term Quality is often used loosely and it conveys different meanings to different people. In referring to a product it signifies the Degree of Excellence. The Quality of a product consists number of elements, each of which has function that contributes in making the product fit intended use.

Our Construction Industry, differs from other industries, in many ways from the view point of ity and Manufacturing Process as discussed follows:

CONSTRUCTION INDUSTRY	OTHER INDUSTRIES
The design and the technology used for each structure is unique This varies according to various factors like location, cost, materials, workforce etc.	These industries are expected to manufacture standard products of same design
Life span of a structure is assumed to be @ 70-80 yrs.	Life span is estimate @ 5-15yrs.
The Quality of raw materials vary from place to place.	The quality of materials is expected to be same.

In a construction industry, the importance is given mainly to Construction stage and also to ning, Design etc. Hence the use of TOTAL QUALITY MANAGEMENT (TQM) in a const. ind important for today's competitive and controversial construction field.

One can define Quality in following manner:

Q – QUESTION TO QUALITY
U – UNDERSTANDING THE QUALITY POLICY
A – ANALYSING THE FACTORS AFFECTING QUALITY
L – LUCRATIVE, BENEFICIAL WAY TO ACHIEVE QUALITY
I – IMPLEMENTING QUALITY MGMT. SYSTEM
T – TOTAL IMPROVEMENT IN QUALITY
Y – YIELDING

TOTAL QUALITY SYSTEM (TQM) is based on the CONCEPT of:

Engineering for Quality rather than Inspection of Quality. It believes that quality starts from stage itself & permeate throughout procurement, construction & acceptance stages. For

integrates the Quality Control Processes & Quality Assurance Programs into one unified action.

process involves following stages:

Statistical Quality Control: The components are subjected to frequent testing and corrective measures can be taken easily.

Quality Assurance: It refers to the managerial process which determines the organisation design, objectives & resources, the project team, various agencies, performance standards & feedback on the projects performance, appropriate action to deal with deviation & all steps necessary for promoting Quality Awareness at all levels & in all parts of the Project.

Quality Circles: This concept is Japanese. It follows the following KEY TO SUCCESS

To come together is Success
To keep together is Progress
To work together is Success.

It involves the participation of all levels of an organisation to achieve the Quality policy.

ISO- 9000 SERIES: These are the standards for Quality management & Quality Assurance systems and updated from time to time. In simple words it says

"DO WHAT YOU SAY & SAY WHAT YOU DO"

There is certainly no major disagreement over the importance of Quality in our work & life nor about its role relative to other performance matrics. There is no need to understand that these matrices can be viewed as complementary rather than competitive. But, to improve Quality we must stop this "CHALTA HAI" business and follow the Proverb that:

"PREVENTION IS BETTER THAN CURE"

Prevention is more important then inspection & detection. You can carry out rectification only after damage occurs. In an extreme case like collapse of a structure, you cannot correct anything. You have to learn to Prevent.

Success is to be measured
Not so much by the position
That one has reached in life
As by the obstacles
That he has overcome
While trying to succeed.

COMPOSITES IN CIVIL ENGINEERING

Compiled by – **MAHESH IYER**
BE (CIVIL)

Materials have had a great influence on our lives and entire historical periods of humankind have been dominated by and named after materials (e.g., Stone Age, Iron Age). With the development of civilization, there has been upsurge in demand for newer materials, focus has been on developing materials required to function in stringent conditions, high temperature and pressure, highly corrosive environments, higher strength, but without much weight. Today, high performance fibre reinforced plastics (F.R.P) are starting to challenge the most ubiquitous material steel in everyday applications as diverse as automobile bodies and civil infrastructure.

Composite materials like (F.R.P.) are formed by the combination of two or more materials that retain their respective characteristics when combined together to achieve properties (physical, chemical, etc.) that are superior to those of individual constituents. The main components are reinforcing agents and matrix. The fibres, particulates and whiskers act as the reinforcement and provide most of the stiffness and strength. The matrix binds the reinforcement together, thus effecting the load transfer from matrix to reinforcement.

Commonly used polymer matrix composites consist of a thermosetting rear matrix in combination with a fibrous reinforcement. Most commonly used reinforcements include glass, carbon and aramid fibres, these being available in variety of forms (continuous, chopped, woven and non-woven multi-axial) as well as combination of these.

The general advantages of composites are as follows :

1) Tensile strength of composites is four to six times greater than that of steel or aluminium.
2) Improved torsional stiffness and impact properties.
3) Composites have higher fatigue endurance limit (Upto 60% of the ultimate tensile strength).
4) Composite materials are 30 - 45% lighter than aluminium structures designed to the same functional requirements.
5) Composites are less noisy while in operation and provide lower vibration transmission than metals.
6) Composites are more versatile than metals and can be tailored to meet performance needs and complex design requirements.
7) Composites exhibit excellent corrosion and fire resistance.
8) Improved appearance with smooth surfaces.
9) Composite parts can eliminate joints/fasteners providing part simplification and integrated design compared to the metallic counterparts.

MECHANICAL/CHEMICAL PROPERTIES OF F.R.P. SECTIONS VS. OTHER STRUCTURAL MATERIALS

MECHANICAL PROPERTIES	PULTRUDED F.R.P.		RIGID PVC	MILD STEEL	STAINLESS STEEL	WOOD
	POLYESTER	VINYLESTER				
Tensile Strength (N/mm^2)	382	401	44	340	340	80
Flexural Strength (N/mm^2)	468	508	70	380	380	12
Flexural Modulus (N/mm^2)	22489	48260	2400	196000	196000	–
Izod Impact (kg-m/cm)	1.36	1.63	0.09	1.5	0.53	–
Specific gravity	1.80	1.8	1.38	7.8	7.92	0.52
Safe temp (^0C)	120	170	55	600	600	160

PULTRUDED PROFILE

Pultrusion is the most effective method for the production of fibre reinforced composite structural profiles. It brings high performance composites down to commercial applications such as lightweight, corrosion-free structures, electrically non-conductive systems, offshore platforms etc.

A good example of pultruded profiles is the Fibreline Bridge, Holding, Denmark. The bridge is 12m. long, 3m. wide crossing carries pedestrians, bicycles and motorbikes. It was designed for carrying vehicles weighing upto 5 MT (megatonne). This strength is provided by a composite deck that weighs only 12 MT (megatonne). If the same section of it were of steel or concrete, it would have weighed 28 MT and 90 MT respectively.

ADVANTAGES OF PULTRUSION

FEATURES	DESCRIPTION	BENEFITS	APPLICATION
STRONG	Unit strength in tension and compression is 20 times that of steel.	Exceptionally high impact strength reduces damage potential	Structural process equipment support Tank support. Cooling tower support, Flooring support Trusses and Joints.
LIGHT WEIGHT	Density of pultruded components is about 20% of steel and 60% aluminium.	High performance at less weight. Lower shipping, handing and installation cost.	Automotive leaf springs and bumpers, pre-fabricated walkways and platforms
CORROSIONT	Unaffected by exposure to corrosive chemicals.	Minimum maintenance cost, longer life.	Chemical plant hand railing, grating, cable trays pipe support
THERMAL INSULATION	They have low conductivity 1/250 of Al. and 1/60 of steel.	Reduces installation thickness. Reduces energy operation requirement.	Bulk head frames, walk in refrigerator door frames insulated panel doors.
SAFETY	They are very strong and safe to work with. They are insect-proof.	They are not affected by microbes etc.	They are used in pharmaceutical and food industries.

CONCLUSION:

Globally, composite technology and its applications have made tremendous progress during the last two decades. China and India have started making use of composites simultaneously about 30 years ago and China has consumed about 200000 MT as compared to about 30000 MT in India. The survey of international technology trends establishes the fact that composites occupy a prominent position as building materials dislodging many conventional ones. Composites are an attractive proposition considering the embedded energy especially against steel, aluminium and other metals. Other important properties such as impact resistance, corrosion resistance thermal and acoustic insultation contribute favourably to composites, claiming its position as an ideal building material.

REFERENCE : Search Magazine

Control of structural response using tuned liquid damper

SACHIN B. PATIL, GANESH S. PATIL – *TE (Civil)*

ABSTRACT :

Widespread destruction in recent earthquakes in India and other countries has underlined the urgent need for proper design and construction procedure for structures that reduce probabilities of earthquake damage. In the conventional earthquake resistant design of structures, the structural elements are designed to withstand earthquake forces elastically. If earthquake forces are excessive, the structure is allowed to deform inelastically by ensuring adequate ductility requirement. Inelastic deformation can, however, cause significant non-structural damages and also reduce the life of structure. It also involves conjection of reinforcement more constructional difficulties and they are uneconomical also. There are many methods to resist vibrations of high rise, flexible and hihly damped structures subjected to dynamic loads either in active or in passive ways.

In active control devices, an external force is applied to control structural vibration, thereby keeping the structure safe and serviceable under extreme loading condition. The amount of external force depends on feedback from structural response. In contrast to active control device, passive control device does not require an external power source. Passive control devices impart forces that are developed in response to motion of structure. This paper enables us to understand all systems and suggests the use of an economically feasible and satisfactory passive control system viz. the tuned liquid damper.

INTRODUCTION :

A variety of devices have been developed to control the vibrations of civil engineering structures due to dynamic loads such as winds, earthquake etc.

1. Active control system
2. Passive control system

ACTIVE CONTROL SYSTEM:

With external power source controls activators that apply forces to structure in prescribed manner. In an active feedback control system, the signals sent to control activators are functions of response of system measured by physical sensors.

PASSIVE CONTROL SYSTEM:

It does not require external power source. These devices impart forces that are developed in response to motion of structure. The energy is passively controlled. Structural systems, including the passive devices, cannot be increased by passive control devices.

SEISMIC REPONSE OF SHEAR STRUCTURE WITH TLD.

Selection of TLD parameters : The TLD has been characterised by three parameters.

$$\text{Tuning ratio (B)} = \frac{\text{linear slushing frequency}}{\text{Natural frequency of structure}}$$

In the present study this value is taken as unity

2) Depth ratio (Δ) $= \frac{\text{Water depth}}{\text{tank length}}$

It is taken as 0.15 for all structures

3) Mass ratio (M) $= \frac{\text{Mass of water}}{\text{Structural mass}}$

It should be between 1 to 4.

TLDs are energy absorbing devices that have been used to control the dynamic response of structures. A TLD, which usually is a rigid tank with shallow water in it, is connected rigidly to strucute. Tuning the fundamental linear slashing frequency of TLD to structure's natural frequency causes large amount of slashing and wave breaking at resonant frequencies of combined TLD structure system that dissipates a significant amount of energy.

NUMERICAL ANALYSIS :

Response to recorded ground motions :

Table : Peak relative displacement at top of various structures due to recorded motions, and percentage reduction in them by a TLD with 1% mass ratio (water depth ratio $\Delta = 0.3$ for Ts = 0.5 sec structure, $\Delta = 0.15$ for all others)

Structural properties		El Centro		Taft	
Ts (S)	Es (%)	$(Umax)_0$ mm	Percent reduction in Umax	$(Umax)_0$ (mm)	Percent reduction in Umax
0.5	0.5	76.9	4.9	35.8	31.8
	2.0	69.2	2.5	23.3	2.2
1	0.5	178	9.1	77.4	18.2
	2.0	152	8.7	52.5	8.0
2	0.5	231	12.5	118	7.7
	2.0	190	12.3	105	7.7

From above results it can be seen that TLD provides comparable reduction in peak relative displacement of a particular structure. From table it can be seen that TLD chosen with a relative large depth ratio, is generally equally effective for stronger El centro ground motion as for weaker ground motion, which have similar ground frequency contents. This implies that, irrespective of actual ground intensities, a larger depth ratio is preferable for all broad banded strong earthquake motion.

CONCLUSION:

The emphasis on this paper is to study the effectiveness of TLD and TLD parameters. This system is presently used in America and Japan and we suggest it should be used in India in order to avoid the damage as experienced in Gujarat last month. They are economical and at least should be used for important structures like school, colleges, hospitals, industries etc.

ACKNOWLEDGEMENTS:

Thanks to Dr. Mohan M. Murudi, for his valuable guidance as also others who have helped directly or indirectly.



Our Principal Dr. R.S. Mate



Our Vice Principal Dr. S.Y. Mhaiskar



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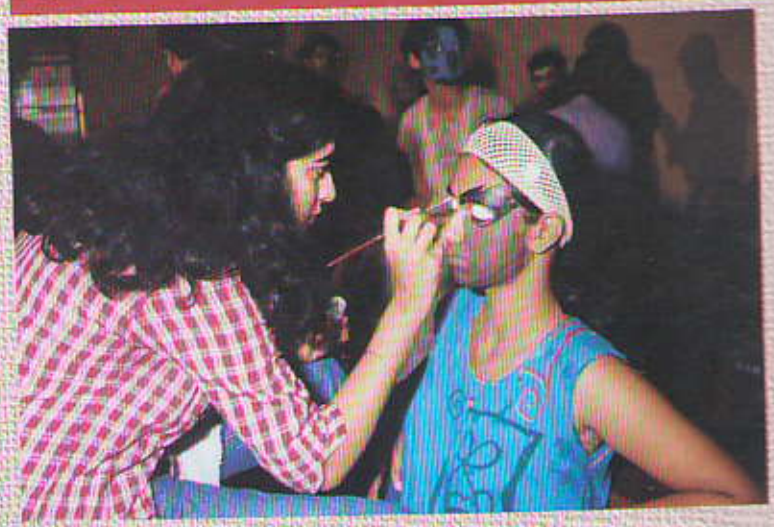


Humko bhi toh lift karade



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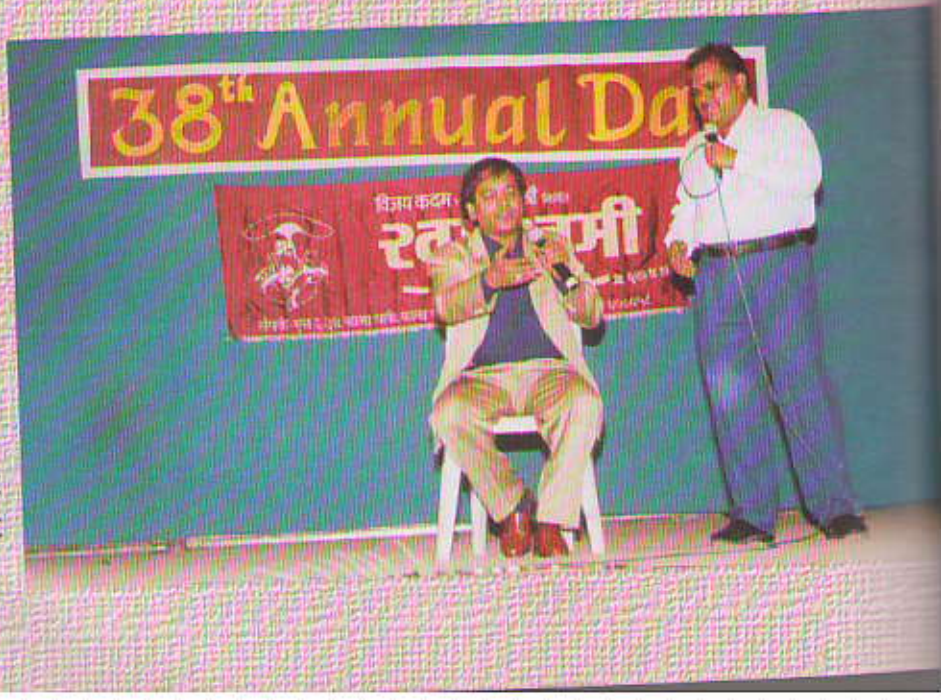
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Dr. Mungekar, lighting the lamp of knowledge



Mr. Vijay Kadam at his comic best

mes the

ngekar,
ellor,
niversity



No caption required here.



ad Zakir Hussain
king the right
chord with the
audience



Prof. R.M.Joshi,
e President–Gymkhana
ee, introducing Pranil
Naik (ex-GS) to
Mr. Subroto Das
Head, e-services, I-flex)



भावस्पंदन चमू –
संचालक प्रा. श्री. ल. पेंडसे सरांबरो



एक 'नाजूक' नाट्यछटा
– व्यत्यय खेद आहे.



'ढगाला लागली
आणि.....'



TE Computers with the Technobreak Shield

Rose Day Roz Roz Nahin Aata (Afsos!)





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संपादकीय





तरुण रक्ताचा सळसळणारा उत्साह व आशावादाचे ज्वलंत प्रतिक म्हणजे २१ वे शतक!

अभियंत्यामधील उपजत कलाकार जागा करुन त्याच्या स्वकल्पनांना वास्तवाची गगनभेदी भरारी मारायला मिळणारी हक्काची जागा अर्थातच 'दिशा' चा मराठी विभाग!

काव्य व लेखन प्रतिभा हा मुळातच एक धगधगता लाव्हा! विद्यार्थी मनातील ह्या ते 'दिशा २००१' तर्फे आपणांसमोर ठेवताना परमसुखाची 'क्षितिजरेषा' गाठण्याचा आनंद हो व ह्या दिव्य शिवधनुष्याची प्रत्यचा बनण्याचा गौरव 'मराठी' विभागात प्राप्त होत आहे.

खरं तर दिशाचा मराठी विभाग आम्ही रेखांकित म्हणजे 'काक कडून राजहंसाचे करण्यासारखे आहे' पण तरीही थोडक्यात सांगायचेच तर, मराठी मनाची अस्मिता, बहुरंगी म मराठीचं देखणेपण, मराठी कलागुणांची ओजस्वीता, मराठीचा मानबिंदू व तंत्रज्ञान क्षेत्रातील मन' ह्यांचा सुरेख वाचनीय, नेत्रसुखद, अभ्यासक व तितकच खुशखुशीत असा संग्रह म्हण २००१!'

ह्या अंकात 'पंचायतीची पंचायत' सारख्या विनोदी लेखांबरोबरच तंत्रज्ञान, विडंबन, व डोक्याला चालना देणारेही साहित्य आहे. तसेच 'चार्ली चॅपलीन : एक शोकांतिका' सारखे ठाव घेणारेही साहित्य आहे.

विविध लीलांची यशोगाथा गुंफणारा व उत्तरोत्तर प्रगतीपथावर अथक धौडदौड हा अंक सादर करताना किती लोकांचा कळत नकळत हातभार लागला याची गणती म्हण अशक्यच! पण तरीही प्रा. 'पटवर्धन मॅडम' व आमचा सहकारी 'नितीन देशपांडे' यांनी बहुमोल मदतीची वाच्यता न करणे हा एक अन्यायच ठरेल.

सगळे बंध तोडून पुढे पाऊल उचललेल्या मराठीचा हा अंक आम्ही आपणांस सादर करीत आहोत.

धन्यवाद!

रामचंद्र जोशी
तृतीय (विद्युत)

संकेत मगरकर
तृतीय (यांत्रिकी)

मराठी साहित्यकला विभाग

प्रा. श्री. ल. पेंडसे सर (स्थापत्य विभाग)

मराठी साहित्यकला विभागातर्फे दरवर्षी यशस्वीरीत्या सादर होणाऱ्या 'भावस्पंदन' विषयी मराठी साहित्यकला विभागाचे अध्यक्ष या नात्याने श्री. ल. पेंडसे यांनी साधलेला संवाद-

माझे मान्यवर सहकारी व विद्यार्थी-मित्रांनो,

आपल्या महाविद्यालयाच्या विद्यार्थी मंडळातर्फे क्रीडा क्षेत्र व सांस्कृतिक, साहित्य, कला विषयक क्षेत्रात ठसठशीत व भरीव कार्य होते. 'स्पेस' या नावाने सादर होणारा सांस्कृतिक महोत्सव मुंबई विद्यापीठाच्या महाविद्यालयीन विद्यार्थ्यांत फार नावाजला जातो. तसेच आपल्या महाविद्यालयातील सर्व शाखांच्या कलाकार विद्यार्थ्यांना कलागुण सादर करण्यास 'भावस्पंदन' या कार्यक्रमात संधी मिळते म्हणून तोही कार्यक्रम सर्व विद्यार्थ्यांचा आवडीचा आहे. 'स्पेस' म्हणजे 'बडे मियाँ' तर भावस्पंदन हा 'छोटे मियाँ' असे दोन्ही मियाँ कौतुकास्पद आहेत!

एकांकिका, गीत गायन, सुगम संगीत, वाद्यवादन, समूहगान, नृत्य, समूह नृत्य, मूकनाट्य, नाट्यछटा, नाट्यप्रवेश (Skits) असे पारंपारिक व काही अभिनव दृक्श्राव्य कलाप्रकार सादर करण्यास विद्यार्थी उत्साहाने भाग घेतात. साऊंड सिस्टीम व वाद्यवृंद यासाठी व्यवसायिकाची मदत असते.

२७ फेब्रुवारी या 'मराठी दिनाचे' औचित्य साधून सांस्कृतिक संमेलन भरवली जावीत, असा जागतिक मराठी अकादमीचा संकेत आहे. या अनुषंगाने आपल्या महाविद्यालयात मार्च महिन्याच्या पहिल्या आठवड्यात भावस्पंदन कार्यक्रम आपण साजरा करतो.

विद्यार्थीवर्गात अनेक प्रकारचे कलानिपुण विद्यार्थी असतात, दरवर्षी नवे कलाकार विद्यार्थी महाविद्यालयात प्रवेश घेतात हे माझ्या लक्षात आले होते. १९९०-९१ या वर्षी विद्यार्थी मंडळाने मराठी साहित्यकला विभाग स्थापून 'भावस्पंदन' असे नाजूक, भावुक नाव देऊन पहिला कार्यक्रम विद्यार्थी कलावंतांनी सादर केला. मी त्या मंडळाचा आरंभापासून 'अध्यक्ष' ठरलो असलो तरी 'कलावन्त विद्यार्थ्यांना एकत्र आणून कार्यक्रमाचे आयोजन करावयाचे यासाठी जो शिक्षक पुढाकर घेईल तो मराठी साहित्यकला विभागाचा अध्यक्ष' इतकी साधी सरळ योजकता आहे माझ्या १॥ वर्षे एवढा कार्यकालावधी राहिला आहे. पुढील वर्षापासून नव्या कल्पक उत्साही शिक्षकापैकी कोणीतरी हे 'अध्यक्षपद' भूषवाने व 'भावस्पंदन' वर्षानुवर्षे साजरे होत ठरावे असे मला वाटते. एका सत्रात भावस्पंदन हा कार्यक्रम सर्वभाषिक विद्यार्थ्यासाठी व दुसरा मराठी सांस्कृतिक कलागुणांच्या सादरीकरणासाठी अशी योजना विद्यार्थी मित्रांनी अपेक्षित धरली आहे त्याचाही विचार करावा.

धन्यवाद!

भावस्पंदन

भावना हृदयीच्या किती राखाल अंतरी
ऐकू येताहेत ना स्पंदने, मग द्या झुगारून बंधने
जागवा निद्रिस्त मना, करू भावस्पंदन साजरा

मित्रहो,

आपल्या महाविद्यालयाच्या मराठी साहित्यकला विभागातर्फे 'भावस्पंदन' हा मराठमोळा स कार्यक्रम साजरा केला जातो. सर्वांच्या पसंतीचा व विद्यार्थी कलागुणांना वाव देणा–या या का आनंद सर्व रसिक मनमुराद लुटतात. लोकप्रियतेची उत्तुंग शिखरे गाठणा–या या कार्यक्रमा म्हणजे विद्यार्थी कार्यकारी सहकारी, शिक्षक गण तसेच विद्यार्थी कलावंत स्नेही यांचा त्रिवेण होय. या कार्यक्रमात अथःपासून इति पर्यंत आमचे प्रेरणास्थान व मार्गदर्शक असलेल्या प्रा. पेंडसे सरांचे जेवढे आभार मानावे तेवढे थोडेच !

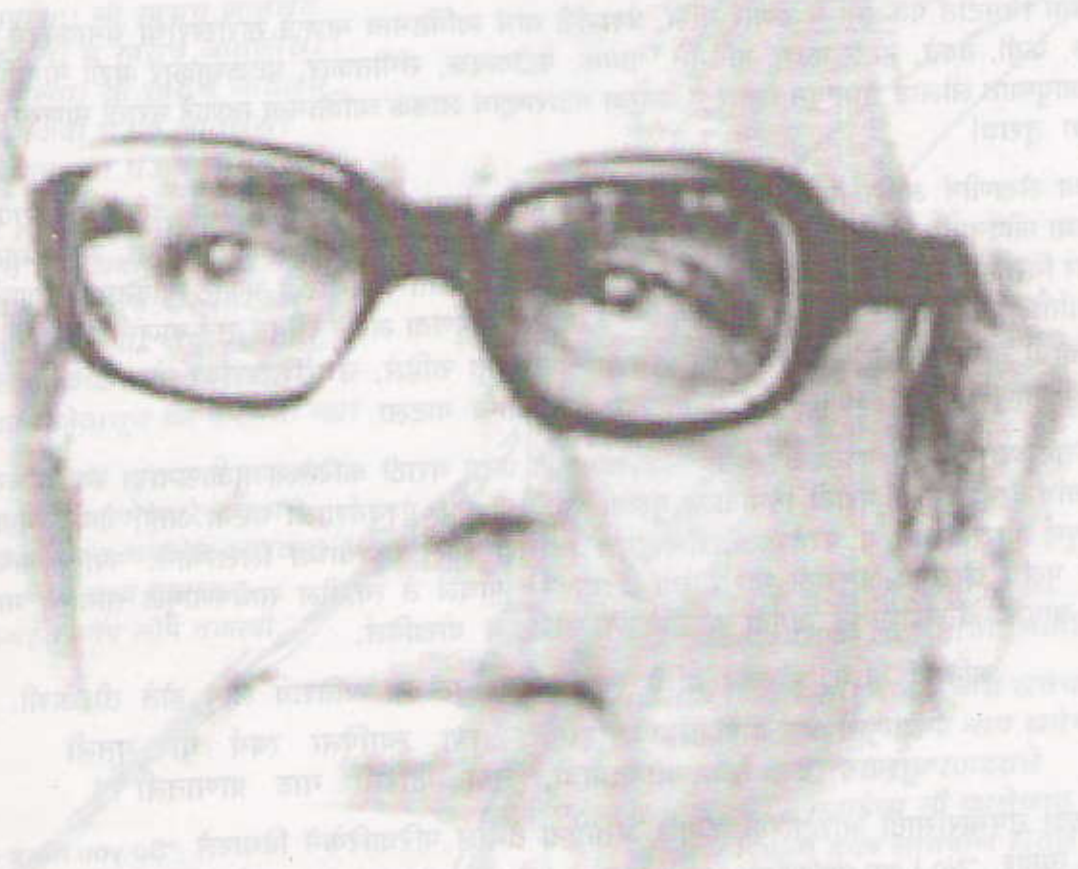
दि. 15 फेब्रुवारीस कार्यक्रमाचा आराखडा तयार झाल्यानंतर 1 मार्च ही तारीख निश्चित आली. राहुल मोरे, तटकरे व सहकारी मित्रांनी कार्यक्रमाच्या पूर्वतयारीची सर्व व्यवस्था अगदी उ केली.

1 मार्च 2001, थोडा ताण, थोडी उत्सुकता, खूप जबाबदारी आणि भरपूर उत्साह घेऊ तो दिवस उजाडला. देविका क्षिरसागर हिने सुमधुर आवाजात सरस्वती वंदन गायले. कलाकार वि गीतगायनाची बहार केली. पेंडसे सरांनी विदयार्थी जगताशी संबंधित रचलेले 'मायमराठी' मा हे अर्थपूर्ण गीत सौ पेंडसे मॅडम यांनी सुंदर चालीवर गाऊन गीताचा आशय सर्वापर्यंत प यावर्षीचे विशेष उल्लेखनीय कार्यक्रम – 'पाच पांडव – एक तांडव', व्यत्यय – खेद आहे य नाटयप्रवेशांबरोबरच क्रिकेट – एक शीत युद्ध, किक्रेट स्कॅम – हे स्वरचित मूकनाटय वापर करून विद्यार्थ्यांनी सादर केले.

भावस्पंदन कार्यक्रमाच्या तयारीत व प्रत्यक्ष कार्यक्रमात अनेक शिक्षकांचा सहभाग होता. य सहकार व मार्गदर्शनामुळेच कार्यक्रम यशस्वी होऊ शकला. – प्रा. आनंद गोडबोले यांच्य चारोळया, प्रा. घारपुरे मॅडम यांची ठसकेदार लावणी तर प्रा. माधवी गोखले मॅडमनी र केलेले मिश्कील 'अंगाई–डॉट कॉम', प्रा. बुक्तार सरांचे 'गिटार वादन' यासारख्या कार्यक्र संध्येची रंगत वाढवली. तन्मयी बेहेरे व चंदन शिंदे यांनी कार्यक्रमाच्या सूत्रसंचालनाची व्यवस्थित पार पाडली.

पेंडसे सरांचे मत सार्थ झाले 'कार्यासाठी आरंभशूर असावा लागतो, चिकाटी व सम दाखवत कार्यरत राहिले की कार्यसिद्धी सहज यशस्वी होते.' आम्ही आरंभशूर न ठरता एकू यशस्वीरित्या सादर करू शकलो याबद्दल आनंद व समाधान आहे. विदयार्थी मित्रांनो – तुम्ही बहुसंख्येने उपस्थित राहून कार्यक्रमास दाद दिलीत याबद्दल तुम्हास धन्यवाद!

तन्मयी बेहेरे *(द्वितीय*
विद्यार्थी प्रतिनि
मराठी साहित्यकल



"महाराष्ट्राचं लाडकं व्यक्तिमत्त्व
म्हणून गौरविलेल्या पु.लं. देशपांडे
अर्थातच 'भाईना' आदरपूर्वक
श्रद्धांजली....."

पु. ल. देशपांडे

मित्र हो! नवसहस्त्रकाची *'ती फुलराणी'* उमलताना आंग्लाळलेल्या जनतेची *'खिल्ली'* उडवताना मराठी वाङ्मय गाळीव इतिहासाची *'पुरचुंडी'* सोडण्याची ही *'नस्ती उठाठेव'* ही दाद मिळवण्यासाठी नाही. आंग्लांचा [illegible] असलेल्या या *'खोगीरभरती'*त *'पूर्वरंग'* सांभाळत *'असा मी असामी'* म्हणणारा भाग्यवान विरळा. *'[illegible] हो!'* या *'अपूर्वाई'* प्रस्तावनेचा उद्देश एकच *'पुलं. एक साठवण'* !!!

शब्दांच्या चिमटीत पकडता न येणारं पु.ल. देशपांडे यांचं व्यक्तिमत्व म्हणजे खरोखरीचा चमत्कारच म्हटला पाहीजे. लेखक, कवी, वक्ते, नाटककार, अभिनेते, गायक, पेटीवादक, संगीतकार, पटकथाकार अशी नानाविधं रुप असलेला एका आयुष्यात लीलया सामावून घेणारं हे अवध्या महाराष्ट्राचं लाडकं व्यक्तिमत्व म्हणजे मराठी माणसाच्या शिरपेचातला मानाचा तुराच!

आपल्या लेखणीनं आणि वक्तृत्वाने प्रत्येक मराठी भाषिकाच्या हृदयावर गेली चार दशकं अधिराज्य गाजवणाऱ्या पु.लं.च्या जीवनातील कितीतरी गहिरे व देखणे रंग लाखो हृदयांनी मनःपूर्वक जपले आहेत. लोकप्रियतेच्या झंझावाटांवर विराजमान होऊनही आपलं मन सामान्यांच्या सुःख दुःखात रमवणारं हे अफाट व्यक्तिमत्व म्हणजे गतशतकाच्या उत्तरार्धातील एक अचाट घटना आहे. अनेक कलांमधील निपुणता आणि जीवन सर्व बाजूंनी आसक्तीनं न्याहाळणारा कलावंताची नजर असलेले *'पुल'* सतत प्रसिद्धीच्या झोतात राहिले. उंच शिखरांवर पोचले, तरी मराठी माणसाला मात्र हा माणूस नेहमी आपल्यातलाच वाटला, सहजप्राप्य वाटला.

ज्येष्ठ नाटककार वसंत कानेटकर यांनी म्हटल्याप्रमाणे जसा मराठी कवितेला तुकारामांचा स्पर्श, मराठी नाटकाला गडकऱ्यांचा स्पर्श तसा मराठी विनोदाला पुलंचा स्पर्श ही एक ऐश्वर्यशाली घटना आहे. केवळ महाराष्ट्रातच नव्हे तर संपूर्ण भारतदेशात व परदेशातदेखील 'पुलं' प्रसिद्ध झाले ते त्यांच्या लिखाणाने. मराठी भाषेची अडचण न येता पुलंच लिखाण अमराठी माणसाच्या हृदयापर्यंत पोचलं ते त्यातील साधेपणामुळे सामान्य माणसाचं जीवन पुलंनी आपल्या लिखाणातून अगदी अलगदपणे उलगडून दाखविलं.

कविवर्य बा.भ. बोरकर यांची एक कविता पुलं ना अतिशय लागू होते ती अशी.

मिलाफून कल्याणकारुण्य हास्यी, तुवा स्थापिला स्वर्ग या भूतली
तुझ्यासारखा तूच आनंदयात्री, तुवा फेडिली गाठ प्राणातली !

पुलं एकदा उपचारांसाठी ऑस्ट्रेलियाला गेले असताना तेथील परिचारिकेने विचारले "So you have come to die here?" त्यावर "No I am definitely going to live, I don't want to die." असे आत्मविश्वासपूर्ण उत्तर देणाऱ्या पुलंनी आपल्या अखेरच्या दिवसांतदेखील आपल्यातील कवी जपला होता म्हणून ते लिहितात.

आताशा बुडणाऱ्या सूर्याला म्हटले.....
बराय उदया भेटू
तर तो म्हणतो.....
कशावरुन?
आजच्या रात्रीची तुला खात्री आहे?

म्हणूनच अखिल महाराष्ट्राच्या वतीनं आमचं एवढच म्हणणं

प्रिय पुलं,

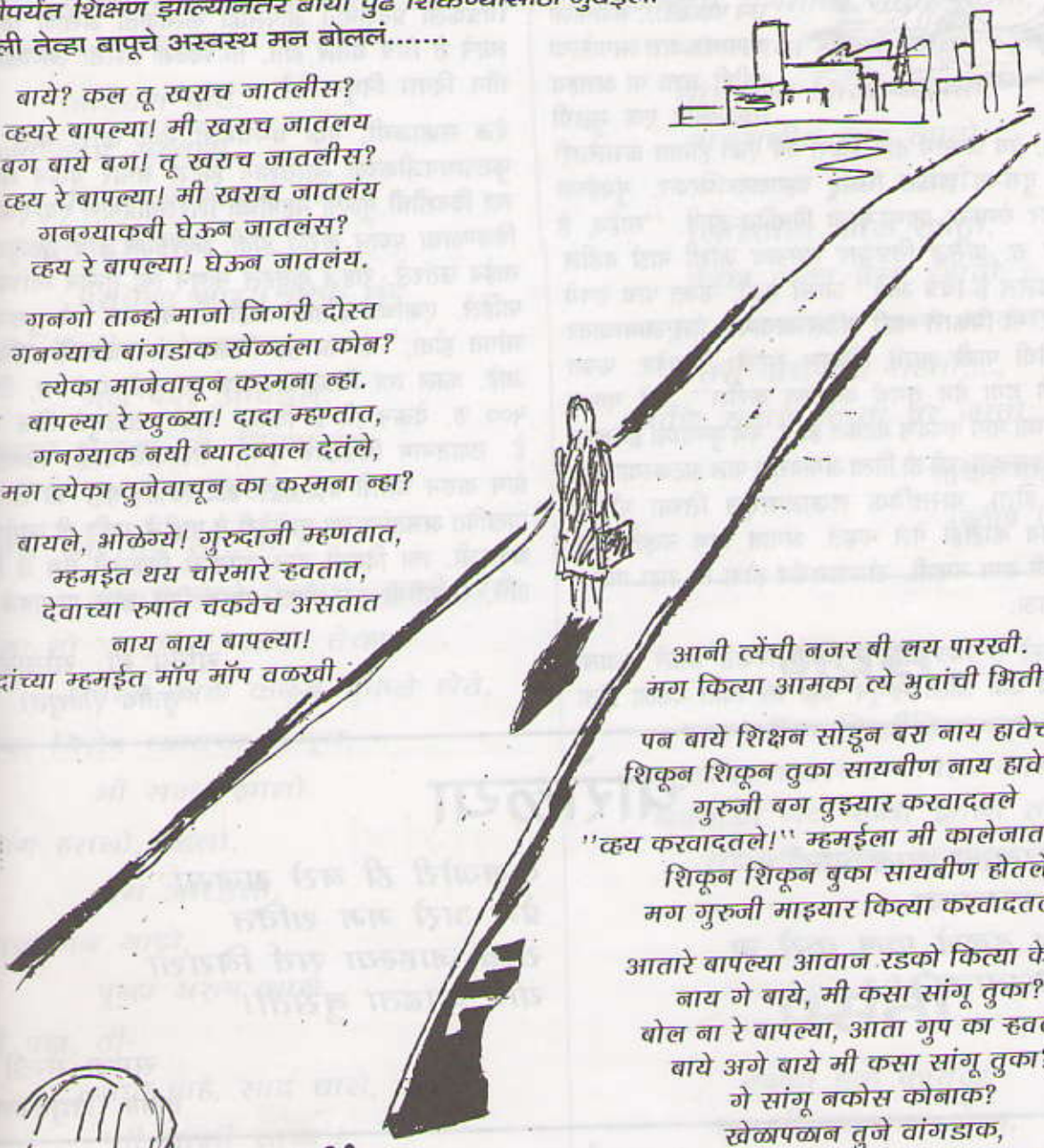
महाराष्ट्र रडणार नाही
यापुढे कधीच नाही
तुमची आठवण काढून,
एकेक शब्द आठवून
हसेल.... हसत राहील
हसून हसून
डोळ्यांत पाणी येईल
एवढंच!

सुशांत एस. ताम्हणे
द्वितीय (संगणक)

खराच जातलीस टाकून माका?

सागर मिस्त्री
तृतीय (यांत्रिकी)

लहानपणापासून एकत्र खेळणारे शिकणारे बायो आणि बापू दहावीपर्यंत शिक्षण झाल्यानंतर बायो पुढे शिकण्यासाठी मुंबईला निघाली तेव्हा बापूचे अस्वस्थ मन बोललं.....



बाये? कल तू खराच जातलीस?
व्हयरे बापल्या! मी खराच जातलय
बग बाये बग! तू खराच जातलीस?
व्हय रे बापल्या! मी खराच जातलंय
गनग्याकबी घेऊन जातलंस?
व्हय रे बापल्या! घेऊन जातलंय.

गनगो तान्हो माजो जिगरी दोस्त
गनग्याचे बांगडाक खेळतंला कोन?
त्येका माजेवाचून करमना न्हा.
बापल्या रे खुळ्या! दादा म्हणतात,
गनग्याक नयी ब्याटब्बाल देतंले,
मग त्येका तुजेवाचून का करमना न्हा?

बायले, भोळेग्ये! गुरुदाजी म्हणतात,
म्हमईत थय चोरमारे रुवतात,
देवाच्या रुपात चकवेच असतात
नाय नाय बापल्या!
दादांच्या म्हमईत मॉप मॉप वळखी.

आनी त्येंची नजर बी लय पारखी.
मग कित्या आमका त्ये भुतांची भिती?

पन बाये शिक्षन सोडून बरा नाय हावेचा,
शिकून शिकून तुका सायबीण नाय हावेचा?
गुरुजी बग तुझ्यार करवादतले
"व्हय करवादतले!" म्हमईला मी कालेजात जातले.
शिकून शिकून बुका सायबीण होतले
मग गुरुजी माइयार कित्या करवादतले?

आतारे बापल्या आवाज रडको कित्या केला?
नाय गे बाये, मी कसा सांगू तुका?
बोल ना रे बापल्या, आता गुप का रुवला?
बाये अगे बाये मी कसा सांगू तुका?
गे सांगू नकोस कोनाक?
खेळापळान तुजे वांगडाक,
जिवाक तुजे माजो जिव गे लागला?
गेल्यार तू म्हमईला, रडान रडान होईत तो यडाबागला?

तू काय बोलतो रे बापल्या, माका नाय रे कळला
काय गे कळतला तुका, जाशीत तू म्हमईला
पर गावायचा नाय, थय तुका माइयासारो बापल्या
लागतली आसव तुजेबी डोळ्याला,

झरोका



वेळ दुपारची, रणरणते उन पडलेले... सर्वांगाला घामाच्या धारा लागलेल्या तरीही अशा या असहय उकाड्यात एक मुलगी अनवाणी, वय जेमतेम दहा-अकरा वर्षे एका हातात कसलेतरी चित्र व दुसऱ्या हातात निसटू पहाणारा परकर. मुंबईच्या फुटपाथवर येणाऱ्या जाणाऱ्याला विनवित होती. ''साहेब, हे चित्र घ्या ना. प्रसिद्ध चित्रकार रामनाथ जोशी माझे वडील यांनी काढलेल हे चित्र आहे'' जास्त नको, फक्त पाच रुपये द्या साहेब. मी भिकारी नाही वडिल अचानक गेले आमच्यावर उपासमारीची पाळी आली, शिक्षण सुटले. ''साहेब, फक्त पाच रुपये दया देव तुमचं कल्याण करील'' असे म्हणत ती प्रत्येकाच्या मागे वणवण भटकत होती. पण कुणाच्या हृदयाला पाझर फुटत नव्हता. जो तो तिला अंगावरील पाल झटकल्याप्रमाणे घालवित होता. वास्तविक सकाळपासून तिच्या पोटात पाण्याशिवाय काहीही गेले नव्हते. अंगात त्राण नव्हते. पण तिला त्याची तमा नव्हती. डोळ्यासमोर होता तो सहा वर्षाचा धाकटा भाऊ.

अखेर एकाने ते चित्र दोन रुपयांना विकत घेतले. त्याला त्या मुलीची दया आली म्हणून नाही तर त्यात दडला होता त्याचा स्वार्थ. नवचित्रकार होता तो तेथून जवळच भरणाऱ्या चित्रकला प्रदर्शनात आपलीही कलाकृती असावी या हेतून त्याने ते चित्र घेतले होते. तो दिवस सरला. आणखी दोन-तीन दिवस निघून गेले.

वेळ सकाळची. एक चमचमती नवी कोरी कार त्या फुटपाथनजीकच्या आलीशान हॉटेल समोर येऊन थांबली. त्या दिवशीची मुलगी नेहमीच्या शिरस्त्याप्रमाणे एक-एक चित्र विकण्याचा प्रयत्न करीत होती. कारमधून दोघे सुटाबुटातले साहेब उतरले. सहज कुतुहल म्हणून त्या मुलीने त्यांच्याकडे पाहिले. एकाच्या हातात काहीतरी चमकले. तो दुसऱ्यास सांगत होता, ''हे बघ ह्या चित्राला नं.१ चे बक्षिस मिळाले आहे. काल त्या चित्रकला प्रदर्शनात गेले होतो ना, तिथले ५०० रु. देऊन मी हे विकत घेतले. साधेसुधे चित्र नाही हे. ख्यातनाम चित्रकार म.रा. गोसावींचे आहे. तावडतोब फ्रेम करुन घेतली बघ हॉल मध्ये लावायला.'' तो ते चित्र दाखवित असतांना त्या मुलीनेही ते पाहीले आणि ती जागेवरच थबकली. त्या दिवशी दोन रुपयांना विकलेले तेच ते चित्र होते. नियतीची क्रूर चेष्टा पाहून तिचे डोळे पाणावले.

संदिप वा. सोनावणे
तृतीय (विद्युत)

चारोळ्या

नव्हते तुजला भान सख्ये ग
मजला बघताना
अवचित ढळले फूल कसे ग
मागे फिरताना...!

कमजोरी ही नसे राजसा
प्रेम असे मम शक्ति
राख जाहल्या सर्व निराशा
याद काढता बुसती!

सुगंधा मेस्त्री
तृतीय (विद्युत)

सांत्वन

अरे कोणाला जाणार आहे ऐकू, आक्रोश तुझ्या मनाचा
हे जगच आहे निर्दयी, कोणीच नाही कोणाचा,
ठाऊक आहे त्यांना दिखावा, फक्त दिखावा.
पुरावा म्हणून प्रत्येकाच्या डोळ्याखालचा कोरडा (!) रुमाल पहावा!

आनंद गोडबोले - *व्याख्याता संगणक*

'ती'

आठवते ती मजला,
पुन्हा-पुन्हा भेटावेसे वाटे.
मनो-मनी सदा तिची,
आठवण दाटे.
लाभला गोड सहवास,
तिचा अनोखाच गंध
पहा किती प्रेम तिचे,
पुरविला माझा हरेक छंद
तिच्या मिठीत खेळावया,
मज फार आवडले.
एकटाच नव्हतो मी, तिच्यासंगे,
बरेचजण बागडले!
तब्बल सहा वर्षे लोटली,
आमचे नाते केव्हाचे जुळले होते.
तिचा तो 'समारंभ' झाला तेव्हा,
बरेच काही कळून चुकले होते.
तिचा निरोप घ्यायचा म्हणून,
मी सज्ज झालो.
प्रथम हसलो, रडलो,
मग ओरडलो.
आज मन माझे,
पुन्हा भरुन आले.
ती पहा, ती-
वाट पाहे, साद घाले,
'ती माझी शाळा'!

गणेश पाटील
तृतीय (संगणक)

अर्धपोटी माणूस

माणूस काय काय खातो....?
माणूस रांगताना माती खातो,
बोलताना शब्द खातो,
भांडताना शिव्या खातो,
मारामारीत मार खातो,
फिरताना हवा खातो,
लिहिताना ओळ खातो,
केव्हा केव्हा पैसा खातो,
माणूस खाण्यातच जन्म घालवतो
तरी अर्धपोटी राहतो....,
आणि खाता खाता वर जातो....!

सचिन बी. पाटील
तृतीय (स्थापथ्य)

नवस

प्रभादेवीचा सिद्धीविनायक,
अष्टविनायकाच्या यात्रेला गेला,
भक्तांची गर्दी कमी झाली तर,
संकष्टी करीन, म्हणाला

पसंती

एकदा एक कावळा
मुलगी बघायला गेला,
मुलगी काळी (!) म्हणून
नापसंत करुन आला.

आनंद गोडबोले
व्याख्याता संगणक विभाग

आम्ही कोण?



आम्ही कोण म्हणुनी काय पुसता?
आम्ही असु राजकरणी ।
वरकरणी दिसतो पांढरे, पण असुत काळे मनी ॥
भ्रष्टाचार लाचलुचपतीला देतो साथ
त्यात न धरी अमुचा कोणी हाथ
ढोंगीपणात बगळेही फिके
गरुड भरारी आमुची तयात
लागती आम्हांस करोड खावया
की तसे खाद्य लाख आणि हजार
असती सर्व गुन्हेही आम्हांस माफ
मग असो खून की व्यभिचार
दिसे आम्हांस दुसऱ्यांच्या, तिजोरीतले आणि ताटातले
आमच्यासाठी हरघडी स्विस बँकेचे द्वारही खुले
मिळता पद आम्हांस, अधिकाराचे किंवा सत्तेचे
दिवास्वप्न पहातसू आम्ही, गल्लीपासून दिल्लीचे
आम्ही देता आधार अपराध्याला, होतो त्याच्या उद्धार
न लागे परमेश्वर साक्षीला, आम्हीच तारणार !

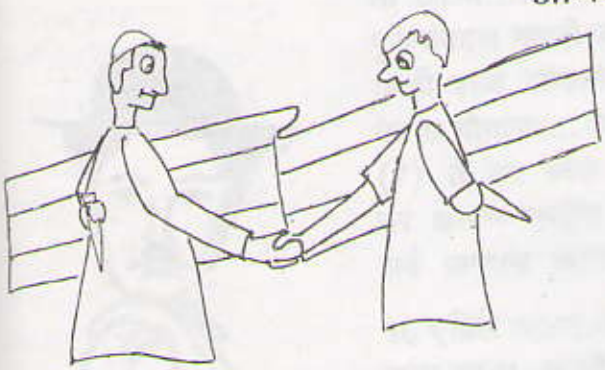
दीपक पितांबर
तृतीय

नातं-शब्द-सुरांचं

शब्दांचं सुरांशी जुळलेलं नातं
तोड म्हणून तुटत नसतं
तरीच विसरता तुला येत नाही
कित्येकदा ठरवूनही
तुझ्या अस्तित्वात हरवलेलं मन
आज एकटच भटकतय
कोरड्या आभाळी भिरभिरत
बहुधा तुलाच शोधतंय,
कळुनही न कळणारा
मन व्यापुन उरलेला
आहे तुझा दुरावा
मला एकटं करणारा
पण खुपश्या तुझ्या आठवणी
बिलगुन आहेत अजूनही.
वाटतं हीच स्मृती पाखरे
जोडतील पुन्हा बंध आपले
कारण; असं सहज जुळत नसत
नातं शब्द सुरांचं
अन् जुळुन आल्यावर तुटत नस
नातं त्या दोघांचं !!

नमिता
द्वितीय

एकी



लढून लढून थकलो आहोत,
तरी मस्ती अजून बाकी आहे.
आमच्या भगव्याची अन् तुमच्या हिरव्याची,
फक्त तिरंग्यामध्ये एकी आहे.
तुम्हाआम्हातलं बंधुभावाचं नातं
गोऱ्या फिरंग्यानी तोडलं,
फक्त तिरंग्यापुरतं म्हणाल तर,
ते अशोक चक्रांनं जोडलं.
पण आज तेच अशोक चक्र,
वाट दिसेल तिकडे पळू लागलंय,
अन् खूप दूर गेल्यावर कोठे,
वाट चुकल्याचं त्यास कळू लागलंय,
स्वदेशी सुताचं तिरंगी कापड,
आज मायदेशीच जीर्ण झालंय,
अन् बलिदानांन मिळवलेल्या स्वातंत्र्याचं,
अखेर आपणास अजीर्ण झालंय.

सतीश राऊत

घडण

वाटेवरील काटे तुडवीत जीवन कापत आलो,
जीवन माझे पराभवातून मी घडवीत आलो,
कधी सागरामध्ये बुडालो,
लाटांमध्ये सापडलो
वादळ वाऱ्यांशी झगडून
सागराच्या तळात भिडलो !
अनुभवाचे शंख शिंपले हाती उडवीत आलो,
जीवन माझे पराभवातून मी घडवीत आलो.
कधी दुःखाच्या दरीत पडलो
पराभूताचे जीवन जगलो
प्रयत्नांची कास धरुन
कधी हरलो कधी जिंकलो!
विजयाचा टोप रुपेरी माथी चढवीत आलो.
कधी रंगहीन झालो
नियतीच्या रंगात मिसळलो
पराक्रमाची वीणा होऊन
जीवन-गीत गात राहीलो !
गीतातील बेसूर सुरांना हुलकावीत आलो,
जीवन माझे पराभवातून घडवीत आलो.

प्रवीण कोरे
अंतिम (स्थापत्य)

ऊठ तरुणा ऊठ

ऊठ तरुणा ऊठ!

पुसून टाक डोळ्यातले अश्रू
अन् सोडून दे ती निराशा
बघून त्या सूर्यास्ताकडे
ठेव उद्या उगवण्याची आशा
आहे अपयश येईल यश
तू डगमगून जाऊ नकोस
रात्री नंतरच दिवस येतो
हे विसरु नकोस
जसे आमावस्या आल्यामुळेच
पौर्णिमा येणे स्वाभाविक आहे
म्हणून हे तरुणा मार त्या निराशेला
जीवन दे त्या विश्वासाला
तोंड त्या अपयशाच्या सारखळीला
घे ओढून त्या यशाला
आता विद्या हीच तुझी तलवार
बुद्धी हीच तुझी ढाल
आत्मविश्वास हेच तुझे चिलखत
यश हाच तुझा विजय
अखेर उतर त्या जीवनातल्या रणांगण
विजय तुझाच आहे
कारण आशिर्वाद हाच तुझा रथ
अन् निश्चय हाच तुझा सारथी आहे

सं

तृतीय

प्रेम नक्की कसं असतं?
ते तर उसासारखं गोड असतं!
'उ'- उन्हाचा आपण घ्यायचा असतो
'सा' - सावलीचा तिला दयायचा असतो

सुशांत ताम्हणकर
द्वितीय (संगणक)

सकाळी दिसताच डोळ्यात भ
संध्याकाळी डोळ्यातून मनात शि
रात्री जागवून स्वप्नात भटक
दुसऱ्या सकाळी कुठे बरं गे

अ
द्वितीय

चार्ली चॅपलीन : (एक शोकांतिका)



तो आला..... त्याने पाहिले आणि तो जिंकला... असे काही लोकोत्तर पुरुषांबद्दल म्हटले जाते. पण चार्ली चॅप्लीनचा उल्लेख करतांना यात आणखी काही शब्द जोडावे लागतील. तो आला... त्याने पाहिले... त्याने व्यथा, वेदना भोगल्या... आणि तो जिंकला... खरोखरच जिंकला, जिंकूनही हरला! (?) ते तर स्वतः फक्त चार्लीच सांगू शकेल. त्याचे चरित्र अभ्यासाल तर आपण एवढेच म्हणू शकतो की चार्ली हा एक यशस्वी माणूस होता. सर्व जगाला खदाखदा हसविणारा एक यशस्वी जोकर....

१६ एप्रिल १८८९ या दिवशी 'वॉलवर्थ' विभागातील 'ईस्ट लेन' येथे चार्लीचा जन्म झाला. चार्लीचे आईवडील दोघेही रंगभूमीवरील कलावंत होते. कलेचा वारसा जन्मानेच लाभला असला तरी त्याचे बालपणीचे भोग मोठे विचित्रच डील चांगले कलावंत पण कमालीचे मद्यपी... आणि त्यांच्या अतिरिक्त मद्यपानमुळेच घराच कायमचा वडिलांचे दारु पिणे चार्लीच्या आईला आवडेनासे झाले आणि त्यातूनच हे दाम्पत्य विभक्त झाले. मोठा भाऊ सिडने अन् चार्ली स्वतः अशा या दोन पोरांचा भार आईसाठी फारसा मोठा नव्हता, ती स्वतः कमावती होती. नवऱ्याला सोडूनही या दोन पोरांना सोबत घेऊन स्वतंत्रपणे जगण्याची च्या अंगी होती. म्हणून नवऱ्याला सोडल्या नंतरही तिने पोठगीसाठी कोर्टाचा रस्ता कधी धरलाच पुढे कालचक्र मोठ्याच विपरीत गतीने फिरु लागले.

ग्या ५ वर्षाचा होता, तशातच त्याच्या आईला घशाचा त्रास जाणवू लागला. रंगभूमीवर तिला वे लागे अन् गळा वारंवार खराब... पैशाची निकड... अनेकदा स्टेजवर तिची फजिती होऊ प्रेक्षकांकडून हुल्लडबाजी अन् अवहेलना सामोरी येऊ लागली... अशाच एका कार्यक्रमाप्रसंगी चार्लीला सोबत घेऊन ही माऊली थिएटरवर गेली. पडदा उघडला... चार्लीच्या आईने गाणे ... अन् गळ्याने दगा दिला... आवाज चिरकू लागला... तसे प्रेक्षकही चेकाळले... चप्पल, अंडी ेऊ लागले. अर्ध्यावरच कार्यक्रम थांबवावा लागला... चार्लीची आई विंगेत परतली.. अन् ढसाढसा ली... चार्ली... ५ वर्षाचे पोर ते... आईची अशी अवस्था बघून कावरे-बावरे झाले... थिएटरमध्ये डाओरड सुरु होती... आयोजकही भांबावलेले... परीस्थितीवर नियंत्रण मिळविण्यासाठी त्यांनी अबोध चार्लीचे बरवोटे धरले अन् ओढत त्यालाच रंगमंचावर आणून उभे केले... ''काही तरी रा...''असे म्हणून चार्लीलाच प्रेक्षकांच्या हवाली केले, पुन्हा पडदा उघडल अन् चवताळलेल्या र उभा होता अवघ्या ५ वर्षे वयाचा चार्ली...! कमालीचा घाबरलेला... भेदरलेला... विंगेत आई मोर प्रेक्षक ओरडताहेत... काय करावे आता...? आणि चिमुकला चार्ली नाचू लागला... थापटून आईनेच ऐकवलेले गाणे गाऊ लागला... पावले कशीही वेडीवाकडे पडत होती पण काय असेल मोरच्या प्रेक्षकांना हा सगळाच प्रकार आवडला... प्रक्षुब्ध प्रेक्षक प्रसन्न झाले... टाळ्या, शिट्ट्यांनी गेले तसा चार्लीचा आत्मविश्वास वाढला. तो अधिकच तन्मयतेने नाचू लागला... प्रेक्षकांनी चा वर्षाव केला... चार्लीने गाणे थांबविले व तो पैसे गोळा करु लागला. त्याने प्रेक्षकांची ली... ''थांबा हं, मी पैसे गोळा करतो मग पुन्हा नाचतो'' या त्याच्या भाबड्या वाक्यानेही . गोळा केलेले सगळे पैसे विंगेत जाऊन आईजवळ दिल्यानंतर चार्ली पुन्हा स्टेजवर आला ला... त्या रात्रीनंतर चार्लीच्या आईचे स्टेज शो बंद झाले... गळ्याने दगा दिला... तसे

दिवसही पालटले... आर्थिक झळ बसू लागली... जमा पुंजी संपली तशी या कुटुंबाने स्थलां दोन खोल्यांचे घर सोडून ते एका बकाल वस्तीत एका खोलीत राहावयास आले. चार्ली अन् भाऊ. पण या दीन पोरांना दोन वेळेचे जेवण देणेही त्यांच्या आईला शक्य होत नव्हते. जेवण झाली की, शेजारी राहणाऱ्या सधन कुटुंबात ती जबरदस्तीने चार्लीला पाठवायची. ''जा शेज मुलांमध्ये खेळ...'' असे सांगायची उद्देश असा की जेवणाच्या वेळी चार्ली तेथे गेला तर त्यालाही खायला मिळेल. कारण शेजारची बाई तशी प्रेमळ स्वभावाची. जेवणाच्यावेळी शेजारच्या घरी जा आई आपल्याला हा आग्रह करते हे चार्लीला बालवयात कळत नव्हते. नंतर मोठा झाल्यावर या मर्म कळले तेव्हा तो ढसाढसा रडला... कित्येकदा...

चार्लीच्या मद्यपी बापाचा वयाच्या अवघ्या ३७ व्या वर्षीच अंत झाला. या मायलेकरांच्या नशिबी दशावतार आलेले... पुढे तर भूक, दारिद्र्य अन् पोरांची आबाळ सहन न झाल्याने चार्लीची आ झाली... आई... आई.... करीत दोघे भाऊ कळवळले.. आयुष्यातील एकमेव आशस्थान, एकमेव असा समोर असून दुरावला... शेजारपाजारच्या लोकांनी चार्लीच्या आईला वेड लागले म्हणून वेड्यांच्या इस्पितळात दाखल केले. आणि अथांग आकाशाखाली चार्ली आणि एक छोटासा मुलगा निराधार झाले. त्यांची पुढील वाट्चाल बिकटच होती पण रक्तात असलेली कला कामी आली. फक्त थिएटरकडे जाणाराच माहीत होता, त्यामुळे वाटचाल तिकडेच होऊ लागली. वय वाढत संघर्ष अंगवळणी पडला... वयाच्या ५ व्या वर्षी प्रेक्षकांच्या तुफान टाळ्या वसूल करणारा चार्ली पुन्हा र आला आणि या जगतात अदितीय ठरला... प्रेक्षकांना मनमुराद हसविणारा हा अप्रतिम विनोदवीर आयुष्यात मात्र अत्यंत दुःखी होता... अखेरपर्यंत...

उत्तरायुष्यात चार्लीने पैसा, किर्ती सर्व काही कमावले पण तरीही कुठेतरी एक अपूर्णता त्याच्या आ व्यापून उरली होती. सरकारी इस्पितळातील आपल्या आईला, पुढे श्रीमंत झालेल्या चार्लीने तज्ञ डॉक्टरांकडे उपचारार्थ हलविले... पाण्यासारखा पैसा खर्च केला त्याने आईसाठी. पण सगळ्या हरवलेली त्याची माता..... मनाने त्याच्या विश्वात येऊ शकली नाही... खूप मोठा प्रशस्त बंग चार्लीने... नोकर चाकर.... दारासमोर गाडी, असे सगळे वैभव पायाशी असतांनाही त्याची प्रत्येक व्याकुळ असायची... गाडी घेऊन तो रुग्णालयात जायचा. डॉक्टरांना विचारायचा... ''काय म्हणते मग थेट आईसमोरच जाऊन उभा राहायचा... ''आई, मी चार्ली.... तुझा मुलगा... खूप मोठा झ चल तू... एकदा पहा तर, जगात किती मान आहे मला. सगळे आगे गं माझ्याजवळ आज आहे... खूप खूप. बोल काय खातेस तू...?'' शून्यात हरविलेली चार्लीची वेडी आई मात्र शून्यातच अ केव्हातरी हळूच डॉक्टरांना म्हणायची... ''माझी पोरं उपाशी असतील हो... त्यांना काहीतरी खायल हे ऐकून चार्ली कळवळायचा... कसे सांगावे आईला? चार्लीने डॉक्टरांना सांगितले की वाटेल ति घ्या पण माझ्या आईला एकदाच, फक्त एकदाच भानावर आणा... तिच्या मुलाने... मी, जगत काय घडवलाय ते एकदाच, फक्त एकदाच तिला कळायला हवे... मला फक्त तिचीच दाद हवीय... ती द्या... पण चार्लीचे दुर्दैव... सगळ्या जगाने डोक्यावर घेऊन गौरविलेला हा थोर कलावंत आई.. करीत आयुष्यभर रडला... पडद्यावर येताच प्रेक्षकांत हास्याची कारंजी उसळविणारा हा विनोदव कधीही हसला नाही.

जोकरच्या आयुष्याची अशीच शोकांतिका असते का? चार्लीही त्यास अपवाद ठरला नाही... एकाकी ब नंतरचे उत्तुंग यश आणि त्या बरोबरच प्रचंड व्यथा, विवंचना, दुःख या सगळ्यांचे मिश्रण म्हणजे असेच म्हणावे लागेल.

शब्दभ्रमंती



सादर करण्यात येणारा कार्यक्रम ६)थोडसं ७)व्यवहार ८)बाण
२).... धोंडो केशव कर्वे ४)निशिगंधा वाडची आई
एक १७)बैल, एक रास १८)ब्राह्मण १९)बंगाल २०)पाणी
हानगरपालिका २४)नमस्कार २६)जंगल
) एक हत्यार २९)सातपुडा पर्वतातून उगम पावणारी एक नदी

भवन्स ही महाविद्यालये या आंतरराष्ट्रीय संस्थेमार्फत चालविली जातात
गारी वस्तू ३)धाक ४)...पारंब्या ५)प्रतिवर्षी ७)दादरचे प्रसिद्ध मामा.....
स. खांडेकर यांची प्रसिद्ध कादंबरी १३)भारताचा एक युवा ऑफस्पिनर
व २२)मुलाची बायको २३)चित्त २५)चामखीळ २६)छेद २७)मादीच्या विरुद्ध

रामचंद्र जोशी
अजय नारकर
नितीन देशपांडे
तृतीय (विद्युत)

माणसाला जेव्हा राग येतो....

माणसाला जेव्हा राग येतो
देहभान तो विसरुन जातो
नाती गोती विसरुन जाऊन
शब्दांचे तीर सोडत जातो
माणसाला जेव्हा.....



काय करतो कळत नाही
कारण रागाचा पारा चढत जातो
सामंजस्य ठेवण्याऐवजी
क्षमा करणे विसरुन जातो
माणसाला जेव्हा.....

आपले दोष सोडून देऊन
दुसऱ्याचे दोष पाहत जातो
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दुसऱ्यांच्या चुका काढता काढता
स्वतः चुका करत जातो
चांगली शिकवण विसरुन जाऊन
गैरवर्तणूक करत जातो
माणसाला जेव्हा.....



शब्दांचे तीर महागात पडतात
सर्वांशी नाते तुटत जाते
मग आपल्याला उमगून येते
की आपण किती चुकत होतो
अहंकाराच्या बोझ्याखाली
आपण किती दबकत होतो
माणसाला जेव्हा.....

म्हणून सर्वांनी समज
झाले गेले विसरु
अहंकाराला झुगार
नितांत प्रेम वाटत
नितांत प्रेम वाटत

सामचंही एक मॅच फिक्सिंग

ऽदम रंगात आली होती. सामान्याचं पारडं कुठल्याही बाजूने झुकू शकलं असतं. सामनाही ऽच्याचाच होता. कॉलेजच्या इंटरक्लास टुर्नामेंट मधली फायनल चालू होती. M.E. (Struct.) S.E. (Civil) शेवटची ओव्हर बाकी होती आणि S.E. ला जिंकायला १६ धावा हव्या M.E. चा कप्तान नुसता कप्तान नव्हे तर लोकप्रिय कप्तान अर्थातच मी होतो आणि सर्वांचा विरोध डावलून शेवटची ओव्हर मीच टाकणार होतो. S.E. चे नऊ गड़ी बाद आणि शेवटची जोडी मैदानात होती. जिंकायला १६ धावा आणि त्याही ६ बॉलमध्ये! न्स कोण सोडणार आणि मॅच पहायला साक्षात 'ती'. त्यामुळे संघात चांगले बॉलर बॉलींगची गोड जबाबदारी मीच स्वीकारली. एकच प्रॉब्लेम होता. समोर होता बंड्या कॉलेजचा एक नावाजलेला फलंदाज. पण मी विचार केला दुसऱ्या टोकाला आहे बाळू पडला बॉलर! म्हटलं बंड्या करुन करुन काय करणार?

माझ्या मनाप्रमाने लावली आणि ओव्हरला सुरुवात केली. बंड्या बॅटिंगला होता. पहिला ाने इतका जोरात तडकवला की माझ्या हातून बॉल कधी सुटला आणि सीमापार कधी कोणालाच काय त्या बॉललादेखील कळले नसेल. मी मनात म्हटलं की काय हरकत बॉल १२ रनही काही तितकं वाईट नाही. परत मी धाव घेतली, चेंडू टाकला. पुन्हा चौकार बंड्या जरादेखील दयामाया दाखवायला तयार नव्हता. लागोपाठ तिसऱ्या बॉलला बाऊंड्री पडली. तेव्हा मात्र आमच्या गोटात चिंताजनक परिस्थिती झाली. माझ्या विश्वासू चेहऱ्यावर उघडउघड बंडाचे भाव दिसू लागले. मी त्या परिस्थितीत देखील त्यांना wrong with the delivery" वगैरे सांगायचा प्रयत्न केला. पण मला कोणीच सहानुभूती तयार नव्हता. अपवाद फक्त नीलेश दाभोळकरचा. आमची मैत्री इतकी प्रगाढ की मी तो वाईस कॅप्टन. तो बोलला की ३ बॉलमध्ये १२ दिलेस आता उरलेल्या ३ मध्ये देऊ नकोस.

बॉल टाकायला गेलो आणि काय चमत्कार. तेथे असलेल्या गोलपोस्टच्या खांबाला लागून . माझा जीव भांड्यात पडला. पण तो पर्यंत बंड्याने दोन धावा पळून काढल्या होत्या. ातला जीव परत बाहेर आता कारण परत बंड्याने आता दोन बॉल दोन रन. मी टलं, हा बंड्या तर हे रन झोपून पण काढेल. माझ्या मनात कॉमेंट्री सुरु झाली की औपचारिकता बाकी रह गई है'' मी पाचवा चेंडू टाकण्यास धाव घेतली. अचानक ाचे आवाज ऐकू येऊ लागले. मी भानावर येऊन पाहिलं तर काय. मी बॅटसमनच्या ाने धावत होतो. ''टेन्शन रे बाबा टेन्शन'' मी स्वतःला सावरल. म्हटलं ''शेंडी तुटो तुटो'' मी बॉल टाकला आणि जन्माच्या कर्माला तो बॉल नेमका यॉर्कर पडला. पण ाने एक धाव काढलीच. आता सामना बरोबरीत आला होता आणि स्ट्राईकवर आता ''. आता S.E. ला जिंकायला फक्त १ रन आणि १ चेंडू. जर मी बाळूला आऊट असतो तर आम्ही "Wicket win" होऊन सामना जिंकू शकलो असतो.

माझ्याभोवती सगळे खेळाडू जमले होते. दहाजण दहा गोष्टी मला सांगू लागले. कोणी सां
की स्लोअर वन टाक. कोणी म्हणालं की आर्मर टाक. एकाने तर चक्क सुचवलं की तू
बॉल टाकायची ॲक्शन कर पण बॉल टाकूच नको. मी सगळ्यांकडे एकदा पाहिलं आणि
की ''कॅप्टन कोण आहे? तुम्ही की मी'' सर्वजण आपापल्या जागांवर परतले. मी एकदा बा
रोखून पाहिलं आणि चेंडू टाकायला धाव घेतली. बाळूने जोरात बॅट फिरवली आणि चेंडू
हवेत. मी देवाचा धावा करत त्या दिशेने पाहिलं तर नीलेश चक्क बॉलच्या खाली! एक अ
सोपा कॅच त्याच्यासाठी देवानेच जणू पाठवला होता. मी मनात म्हटलं हुर्रे। शेवटी जिंकतो
हाय रे दुर्दैव! नीलूने तो सोपा कॅच चक्क सोडला तो पर्यंत बंडया बाळूने एक धाव पूर्ण
होती आणि S.E. ने तो रोमहर्षक सामना एका विकेटने जिंकला होता. मैदानातच फटा
आतषबाजी सुरु झाली, आम्हा पराभूत वीरांकडे कोणाचंच लक्ष नव्हतं. मी राहून राहून नि
शोधत होतो. पण तो त्या गर्दीत जणू विरघळून गेला. मला माझ्या त्या परममित्राच्या जागी
अझरुद्दीन दिसू लागला.

त्याच दिवशी रात्री शेवटी मी त्याला शेट्टीच्या हॉटेलवर पकडला मला पाहून त्याचा चेहरा
उतरला. मी कदाचित त्याला ''माधवन'' वगैरेसारखा दिसलो असेन. मी म्हटलं काय रे न
तर तो एकदम गळ्यात पडून म्हणाला, ''यार! मला माफ कर. मी तो कॅच घेतला असत
गर्दीत अचानक मला तिचा रडवेला चेहरा दिसला. ती S.E. ला आहे ना! पराभवाचं दुःख
तिच्या चेहऱ्यावर दिसत होतं. ''मैं दिल के हाथों मजबूर था यार'' म्हणून मी तो कॅच
आणि ती हसली, पण आपण हरलो. "I am Sorry" मी त्याच्याकडे पाहिलं आणि म्हणालो
तर तुला माफ केलं, पण मला कोण माफ करणार. मी पण एकाशी पेज लावली होत
S.E. ला यावेळी हरवूच आणि तुला काय वाटलं बाळूने काय उगीचच कॅच काढून दिला
दोन वेळा तो "Structural analysis" मध्ये फेल झाला होता. स्ट्रक्चरच्या नोट्स दे
बोलीवरच तर तो आऊट होणार होता. "Anyway! everything is fair in Love &
अशाप्रकारे माझ्या मॅच फिक्सिंग चा करुण अंत झाला. म्हणूनच माझं तुम्हालाही सांगणं
फिक्सिंग कुठल्याही प्रकारची की असेना कृपया करु नका कारण सगळ्यात मोठा ''फिक्सर
ईश्वर वर बसला आहे. त्याचं काम त्याला करु द्या.

प्रमोद म्ह
(एम. ई. स्ट्र

टॉस



या भवताली
भरला
ट्टीवर'
फिरला
'टॉस'
खास
टके
'शतके'
नको
मला
डवू नको
नाही
घाबरतो
वरती
जातो
गिरकी
'फिरकी'
पुढे
डे
क्क
'ब्रेक'
डवू नको
मी मला
वू नको
न मिळते
कळते
ते
वळते
हीत की
दांज'
जलाही
लंदाज'
'लग्नाची'
वू नको
णी मला
वू नको!

प्रसाद र. काकोडकर

शब्दतारे

हसून पहावं, रडून पहावं
जीवनाकडे नेहमी डोळे भरुन पहावं
काहीतरी द्यावं, काहीतरी घ्यावं
आपण गेल्यानंतरही
आपलं नाव कुणीतरी काढावं
देशावर करावं, धर्मावर करावं
माणसावर करावं, माणुसकीवर करावं
पण.....
प्रेम मात्र मनापासून करावं

ऋषिकेश महेंद्र साळुंके
तृतीय (यांत्रिकी)

प्रेम

प्रेम म्हणजे काय माहीत नाही मला
उत्तर द्यावं त्याने माहीत आहे ज्याला
ज्याला वाटत प्रेम करावं थोडं
त्यानेच सोडवावं प्रितीच कोडं
फुकटात प्रेम करायला आपल काय जातं?
प्रेमाबद्दल आकर्षण म्हणून होकार दिला चक्क
प्रेमामध्ये दयायचा एकमेकांना मान
त्यामुळेच राहत नव्हतं वेळेचं भान
पेल्यातल्या वादळासारखी भांडणं झाली सुरु
जो तो म्हणत होता मीच तुझा गुरु
प्रेमात असतो आत्मिक मेळ
म्हणूनच करु नये प्रेमाचा खेळ
नाहीतर येईल पश्चात्तापाची वेळ

ऋषिकेश म. साळुंके
तृतीय (यांत्रिकी)

प्रेम करावे एकदाच.....

प्रेम करावे एकदाच,
निरभ्र अनंत आकाशासारखे
प्रसंगी सावली देणारे
कधीच न संपणारे
प्रेम करावे एकदाच,
रंगीत, सुगंधी गुलाबासारखे
स्वत: काटे झेलूनसुद्धा
दुसऱ्यांना सुख देणारे

प्रेम करावे एकदाच,
तूफान वादळासारखे
सुसाट वेगाने वाहणारे
स्वत: ला झोकून देणारे
प्रेम करावे एकदाच
पण अगदी मनापासुन.
सुखात सहभागी होणारे.
त्यागातही सुख देणारे.

सचिन
अंतिम (स

व्यथा

तु आनंदात असल्याचा, कितीही बहाणा केलास,
तरी मी जाणतो तो देखावाच आहे,
तुझ्या त्या हसण्यातही,
तुझ्या आर्त मनाच्या केवळ वेदनाच आहेत ।।

तू लाख म्हण, मी तुला विसरले आहे
माझ्या आयुष्यातून तुला समुळ उखडून टाकले आहे.
पण सत्य केवळ एवढेच आहे,
तू माझ्यातल्या मला उखडले आहेस पण,
तुझ्यातल्या मला अधिक जवळ केले आहस ।।

त्याच्या हातात हात घालून तू मुक्त भ्रमण कर.
त्याच्या खांद्यावर डोके ठेवून, तू खुशाल डोळे मीट
त्या त्रयस्थ खांद्यावरही तुला समाधान मिळेल.
जेव्हा तुझ्या बंद डोळ्यासमोर फक्त मीच उभा असेन ।।

प्रेम-प्रेम म्हणून, तू फक्त कांगावा केलास
पण प्रेमातील विरहाचा एक क्षण नाही तू सोसलास
अगदी सहजपणे तू त्याच्या हातात हात दिलास
अन् आपल्या प्रेमसंबधाचा केविलवाणा शेवट केलास ।।

आता, प्रेम म्हणजे काय हे तुला कळेल,
जे तुझ्याजवळ नसेल, फक्त तेच 'प्रेम' असेल ।।

नितीन
तृ

प्रेमाची इलेक्ट्रीसीटी

प्रथमच पाहिले
झाले Heavy Short Circuit.
माझ्या डोक्यातलं Net,
गातून Excuse
ती तशीच Confuse,

मध्ये होता तिचा Boyfriend Reluctance
जमत नव्हते आमच्यात Mutual Induction,
वाढविली मी Flux density
ठे तयार झाला Sufficient emf,

मग मी केला ह्या Circuit चा Switch Close.
वाहू लागला आमच्यात प्रेमाचा Alternating Current,
त्याला कसातरी करायचा होता Direct Current,
म्हणून मी लावला एक Capacitor in Shunt,

तिला केलं मी Propose
तिने तर दिला 11 KV नकाराचा Shock,
म्हणे मी तर करत होते Just Time Pass
कळून चुकले मला आता,
हृदयात Relay आणि Circuit Breaker लावायचा राहिला होता

दीपक पितांबर महाजन
तृतीय (विद्युत)

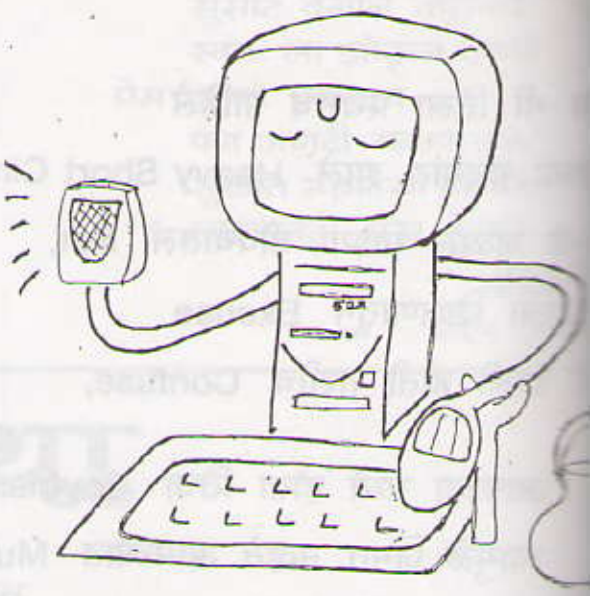
सॉफ्टवेअरचे श्लोक

॥ जय जय सॉफ्टवेअर समर्थ ॥

मना सज्जना फक्त पैसा दिसावा
पैश्यावरी सदा लोभ असावा
पैसा असो हा काळा की गोरा
वर्णभेदास या देऊ नको तू थारा ॥१॥

Java-corba चा एक Course करावा ।
खोट्या अनुभवाने Resume सजवावा ॥
Data quest आणि Ascent वाचुनि ।
खलिता हा आपला सादर करावा ॥२॥

Bodyshoppers इकडे कोट्यान कोटी ।
कामात असते त्यांच्या सदैव खोटी ॥
निर्मल परी Bodyshopper निवडावा ।
H1 Visa तत्पर File करावा ॥३॥



Honda, Toyota मधून ''तिकडे'' फिरावे ।
लोकल आणि बसचे दिवस विसरावे ॥
मौज ''तिकडे'' भरपूर मारावी ।
बायको परी इकडची करावी ॥४॥

Grand Canal आणि Vegas ला यावे फिरुनी ।
Niagara पाहावा डोळे भरुनी ॥
Golden Bridge तिकडचा आहे महान ।
लकड़ी पूल पुण्याचा किती लहान ॥५॥

भरपूर Dollors तिकडे कमवावे ।
योग्य वेळी ते बदलून घ्यावे ॥
पैसा मिळेल मग कोट्यान कोटी ।
उतरवयात मिळेल व्याजाची काठी ॥६॥

॥ जय जय सॉफ्टवेअर समर्थ ॥

राजेश जाधव
तृतीय (विद्युत)

चंद्रकांता



ती स्वामिनी,
मी जोडीनी,
रेशमाच्या धाग्यांनी,
बिनी,
ती आहे त्याची सुप्रिया,
निसर्गाच्या रचनेची किमया.
त्याच्या प्रतिष्ठेची ती आहे श्रेयसी
त्याला ती दूर जाऊ देणार तरी कशी?
ली
जसे वृक्षवेली,
त्याच्याच तंद्रीत लीन
ढगरुपी 'जीन'
त्याचे अश्रु-ती पीत असते
ते-जल ती स्वतः जवळच ठेवते,
ते आहेत जन्म जन्मांतरीचे सोबती
जसा तो दीपक आणि ती ज्योती,
ते नेहमी ती तेजस्विनी
चंद्र व ती त्याची चांदणी.

दिपक पितांबर महाजन
तृतीय (विद्युत)

प्रेम कलिकेचे



मरासी
का, मज तू दिसशी ।।
आज मलूल का
द. तो शांतक्लांत का ।।
मी तुझियासाठी
वी भ्रमरासी ।।
मधुकर मग फार सायासाने
माझिया मौनाचे ।।
सप्तरंग, ही कैसी असे किमया
सले, जरी पाहिजी ही आलम दुनिया ।।

चिरंजीव एक कल्पना मनात अवचित फुलली
प्रेम तुझे असेल का मझिया भाळी ।।
यःकश्चित पामराला का मिळावे प्रेम साम्राज्ञीचे
सिताचाने का बनावे माणिक, या गरीबाच्या
ओंजळीतले ।।
बरें जाहले, कळी वदली, तूच वदलास माझिया मनातले
बेलेस मला अढळपदावर एकाचे वचनाने ।।
लटके बसेत भाव हे, असे आर्तता खरी
काय असे जगतात ह्या प्रेमाहूनी भारी ।।

नीलेश दाभोळकर
M.E. (Struct)

पक्षीसंवाद

''मित्रांनो'' व्या शतकात आपल्या जगण्याची पद्धत बदलली आहे. जग जवळ येतय, माण जाताहेत आयुष्याला वेग आलाय. फक्त आपल्याच नाही तर पक्ष्यांच्यासुद्धा माणसाची धावपळ, समाजातील दुष्ट प्रवृत्ती बदललेले प्रवाह, जीवघेणी स्पर्धा ते जवळून बघताहेत. त्यावर चर्चा तसं बघायला गेलं तर हा एक विनोदी पक्षी संवाद वाटेल साधा सोपा... तुम्हाला आवडेल परंतु हा लेख म्हणजे सामाजिक व्यंगावर बोट ठेवण्याचा एक प्रयत्न आहे.

पक्षीसंवादातील पात्रपरिचय

सोनी : पोपटीण
(मु.पो. गुलमोहराचे झाड, शिवाजी पार्क, दादर)

मन्या : सोनीचा नवरा

टुटू : सोनीचं पिल्लू

मिनू : रोहित पक्षीण
(मु.पो. अमेरिका मोनीची मैत्रीण)

जॉन : मिनूचा नवरा



आज रविवार! बघा ना, मुंबईत असूनसुद्धा कसं शांत शांत वाटतय. सकाळचे सहा वाजले दादरच्या शिवाजी पार्कात फिरताना उटीलाच फिरतोय असं वाटावं एवढी थंडी पडलीय. ती प का पोपटीण हिरव्यागार रंगाची, दिमाखदार चोचीची, तांबड्याजर्द कंठाची. तिच नाव सोनी, पार्कातल्या सगळ्या पक्ष्यांची लाडकी आह बरं का ती. इथे येणाऱ्या मैना, बगळे, बुलबुल, सगळीजणं तिच्या गुलमोहरावरच्या घरट्यात पेरु खाऊन जातात. जो पोपट आत्ता नॅचरल्स आ घेऊन गेला ना, तो मन्या पोपट-सोनीचा नवरा, चांगला खानदानी, उच्च कुळातला प्रतिष्ठी आहे तो. त्याच्या सात पिढया इथे शिवाजी पार्कमध्ये वाढल्या. अख्खं गुलमोहराचं झाड त्याचं ए आहे. म्हणजे विचार करा. नाहीतर आजकाल दादरमध्ये एवढी घरं झाली आहेत की घरटं ब झाड कुठून मिळणार?

हं! तर हा मन्या पोपट खूप प्रेम करतो बरं का सोनीवर. तिला गेट वे ला सुद्धा घेऊन जातो ताज हॉटेलच्या खिडकीवर बसून ते दोघं चायनीज खातात. चायनीज खायलाही त्यानेच तिला शि नाहीतर तिला कुठे माहित असणार? हो, पण फार हुशार आहे बरं का ती! उडण्याच्या परीक्षेत यादीत आली होती ती. आताही दादरला आल्यावर तिने इथलं वळण शिकून घेतलं हो! रोज उद्यानाला जायचं, सकाळ संध्याकाळ पार्कात एक चक्कर मारायची आजूबाजूच्या पक्ष्यांबरोबर ख्रि चर्चा करायची मन्याबरोबर शिवाजी मंदिरला नाटकाला जायचं. अरे, आपण बोलतच बसत आपली सोनी कुठे चालली? बघूया ती कोणाशी गप्पा मारतेय ते? चक्क Cybercafe मध्ये

सोनी पोपटीण : हाय मिनू.

मिनू (रोहित पक्षिण) : हाय! काय गं, कशी आहेस?

ife चे मालक गेलेत भारत-ऑस्ट्रेलिया मॅच बघायला. सचिन आणि शेन वॉर्नची
ून लगेच शिरले आत. तुला काय? मैत्रिणीला विसरलीस! नौदल संचालनाच्या
न वाटीवर बसलेल्या जॉन रोहित पक्षाच्या भराऱ्या तुला आवडल्या काय आणि
कन उडून तू त्याच्याकडे गेलीस काय आणि नंतर विमानांच्या प्रात्यक्षिकांच्या
च्या लग्नसोहळा..... त्यादिवसानंतर माझी आठवण तरी आली का?

रका देश, परकी झाडं, बराच वेळ काही ना काही शोधण्यातच जातो. मला
ी खूप आठवण येते. तू कशी आहेस?

ध्या खूप काळजीत आहे. माझं पिल्लू टूटू; अजून उडताच येत नाही त्याला.
पड. बरं सांभाळणार तरी किती 'छोटा कावळाची' गँग इथे दादरमध्ये नुसता
ा एकदा आकाशात झकास उडता आलं की चिंता नाही. आता त्याला उडायच्या
कलय.

क्लासला?

, हल्ली चारा आणायला एवढा वेळ जातो झाडं राहिलीत कुठे आता? आम्हाला
निसर्ग उद्यानात जावं लागतं. घरटयात आल्यावर पंख असले दुखतात म्हणून
झाडच नाहीत ना *शिवाय मोटीरीचे भोंगे, प्रदूषण ह्यामुळे शरीरातील ताकदच*
सलं आलयं शिकवणं?

कडे म्हणे चिंटे क्लासेस *यशाची १००% हमी देतात. त्याचं खूप मोठं प्रस्थ*

पॅटर्न ना. त्यांच्या क्लासमधल्या पिल्लांच्या आणि त्यांच्या पालकांच्या मुलखती
मात्र भरमसाट असते आणि त्या पैशांच्या जोरावर चित्रपट काढतात. उडण्याच्या

कुठे क्लास होते गं. आई बाबा आपल्याला शिकवायचे तेव्हा पहिल्यांदा आपण
कदसुद्धा नव्हती आपल्या. आधी छोटा टप्पा आईच्या मागून, मग मोठा ठप्पा
...

मागून आपण आकाशात उडताना दिशा बदलायचे कोन कसे पाठ केले होते

ल्लांना हे क्षण कधीच अनुभवायला मिळणार नाहीत. परीक्षेत काय विचारणार
र त्या परीक्षेचा काय उपयोग! आयुष्य ह्या परीक्षेइतकं सोपं नसतं हे कधी

ुड्यासारख्या ज्ञानी पक्ष्यांनी जगभर फिरायला हवं. कबुतरांना नाही का शांतिदूत
का मागे रहावं?

मिनू : हो ना. इथे आमची पक्ष्यांची एक युनियन आहे. आम्ही पिंजऱ्यातल्या पक्ष्यांना सोड त्यांना आपल्या थव्यात होतो त्यांना त्रास देणाऱ्या पक्ष्यांना दंड करतो. माणसांमध्ये भावंडच एक पाय ओढतात. निदान आपल्यामध्ये तरी असं होऊ नये असं वाटतं ग. बरं ते जाऊ दे तुम्ह म्हणे कौन बनेगा करोडपतीने धमाल उडवून दिलीय!

सोनी : अग हो ना. आजकल आठनंतर शिवाजी पार्कात सामसूम असते मग आम्हीसुद्धा सम अथर्व बिल्डिंगवर बसतो मी आणि टिल्लू चिमणी. अमिताभ पुढे कुणाचं आपल्याकडे लक्ष जा आता म्हणे 'छप्पर फाड के' आणि करोडपतीची जुंपलीय. पण अमिताभ तो अमिताभच. आवाज, खानदानी लकबी, भाषा..... चो अजूनही सुपरस्टार आहे. माझ्या टुटूच्या शाळेत उत्तर दिलं की ओरडतात ''Confident, Lock किया जाए?'' अग, आमच्या गुलमोहरावर कौन बनेगा झाडपती खेळतात. पैशाएवजी आम्ही फळं ठेवली आहेत. खूप मजा येते!

मिनू : पण सोनी तुला माहितीये का ह्या बक्षिसांवर टॅक्स असतो शिवाय इतके झटपट पैसे मि लागले तर नोकरीच करायला नको.

सोनी : अग माधवी ते सोड. भूकंपग्रस्तांना म्हणे मदतच मिळाली नाहीये अजून इथे माणूसच मा विसरलाय मग आपलं काय राहिलं गं. झाडं सुद्धा ठेवत नाहीत ते. पूर्वी किती बरं होतं मोरा, चिऊताई-चिऊताई दार उघडं केवढी गाणी रचली होती आपल्यावर किती महत्त्व होतं आप

मिनू : सोनी अशी निराश होऊ नकोस ग. पक्षीप्रेमी झाडं वाचवतायत. आपल्याला W.W संरक्षण दिलय. तू नको काळजी करुस; नीट होईल सगळे. बरं, पिल्लांना काय काय शिक

सोनी : अग टूटूपेक्षा लहान अजून अंडयातच आहे. त्यामुळे सगळं लक्ष टूटूवर. मी टूटूला म्हणते जरा शिक माणसांच्या मुलांकडून. त्यांना आईच्या पोटात असतानाच सेंट्रलच्या लोक धक्के मारत कसं चढायचं, सिग्नलला बस कशी पकडायची ते बरोब्बर कळतं. त्यातल्या मुंबईची मुलं जरा जास्तच स्मार्ट असतात. ८.१९, ५.०१ म्हणजे काय? असं ती विचारत गर्दीतही ती व्यवस्थित जुळवून घेतात.

अगं हो गर्दीवरुन आठवलं. काल नॅशनल पार्कवरुन येताना अंधेरीला लोंढेच्या लोंढे पश्चिमेल होते. मलासुद्धा कुतूहल वाटलं. बघते तर काय एका इंजिनिअरिंग कॉलेजने उस्ताद झाकीर आण उस्ताद सुलतान खान यांचा कार्यक्रम ठेवला होता. Engg. ची मुलं असूनही इतक आयोजन केलं होतं. एखाद्या उत्सवाचं स्वरुप कार्यक्रमाला आलं होतं. मुलांची धावपळ, सुर वेगळंच काहीतरी जाणवलं आणि मग सुरु झाला एका ईश्वरी शक्तीचा आविष्कार. हिं शास्त्रीय संगीत तरुण मुलांची दाद घेत होतं. काहीच कळत नव्हतं, तरीसुद्धा आत कुठेतरी होतं. झाकीर हुसेनांची बोटं तबल्यावर जणू नाचत होती. त्यांच्या चेहऱ्यावर समाधानाचं तेज होतं. खरं सांगू मिनू वाटलं आपल्याला बोटं का नाहीत?

तन्मयी बेहेरे
द्वितीय (विद्युत)
(अधिष्ठान दिवाळी अंकाच्या सौ

लग्न पत्रिका

// लोकशाही प्रसन्न //

ुन दंडवत वि. वि. आमच्या येथे लोभी व्यापारांच्या कृपेवरुन....
अनिश्चित सरकारच्या आशीर्वादाने...

भ्रष्टाचार

.ग.ली.कडे)
ाळाबाजार, यांचे अनिष्ट पुत्र)

चि.सौ.कां. महागाई

(सा.मा.न्य.ज.न.ता)
(कुप्रतिष्टित क.रा.भामटे, यांची कन्या)

यांचा

ाळ्यारात्री १ वाजुन ३० मि.शुभविवाह एम.टी. मुहूर्तावर करण्याचे योजिले
ापण सहकुटुंब व मित्रपरिवारासहित येऊन वधूवरांच्या व त्यांच्या
ा कानाखाली आवाज काढावेत ही नम्र विनंती.

आपले खुशमस्करे,

.रा. जोडे श्री. व.सौ.क.र. बुडवे श्री. व.सौ.स.दा. वाटलावे,
वसे श्री. व.रा.बोंबले श्री. मा.गा. हप्ते,
आणि समस्त काळाबाजार बांधव

: जुगार भवन, मटका गल्ली, भाववाढ रोड, सट्टा बाजारा शेजारी, शेअरवाडी - ४२०

: हळदीचे भाव वाढल्याने चूना लावला तरी चालेल.

ाहेर आणणे जरुरीचे आहे. लग्न प्रतिष्ठितीचे असल्याने जोडेच आणावेत,
ी वेळ लग्न लागल्यावर.

ादाच्या लग्नाला यायचं बलं का! चि. खोटे, भामटे, चोरटे, लबाडे, थापाडे.

सौजन्य - सचिन बाळासाहेब पाटील
तृतीय (स्थापत्य)

शब्दभ्रमंती (उत्तरे)

६. जरा ७. कारभार ८. तीर ९.रापणे १२. महर्षी १४. विजया वाड १६. तीळ १७.
वंग २०. जल २२. सूट २३. मनपा २४. नमन २६. कानन २८. चॉपर २९. तापी

द्या भवन २. स्पंज ३. दरारा ४. सूर ५. दरवर्षी ७. काणे १०. पहाड़ ११. ययाती १३.
२१. लपाछपी २२. सून २३. मन २५. मस २६. काप २७. नर

ABCD.....

Mother tongue ला English जखमा,
करुन बोलायची फॅशन आहे.
साध्या सोप्या माय मराठीत
Best प्रदूषण वाढत आहे.
By the way... हे ध्यानीत घेणे
चालू जमाना instant आहे.
उठसूठ Sorry, Thank you, Sorry,
कानावर रतीब चालू आहे.
Oh No! Wow! असे फिदीफिदी उदगार
Halo, Hi शी खेटत आहेत
खरं तर, No Comment!
पण Situation OK आहे.
Anyway, Shake Hand करताना
पटकन bye करायचं आहे.
No looking back म्हणतच
नाकाम्होर चालायचं आहे.
आताशी lightly कुछ भी नहीं
सालं life खूप fast आहे
Non-stop वाटचालीला
राईसप्लेटची आदत आहे.
लोकलनी standing जाताना
English झाडायची हौस आहे
मूर्ख, बावळट, चक्रम जाऊन
Fool, Ediot चा जमाना आहे!
News, Headlines वाचून आपलं
General Knowledge best आहे
'Perfet Man' होण्यासाठी
A,B,C,D ची need आहे

सुयोग ढाके
द्वितीय (विद्युत)

चारोळ्या

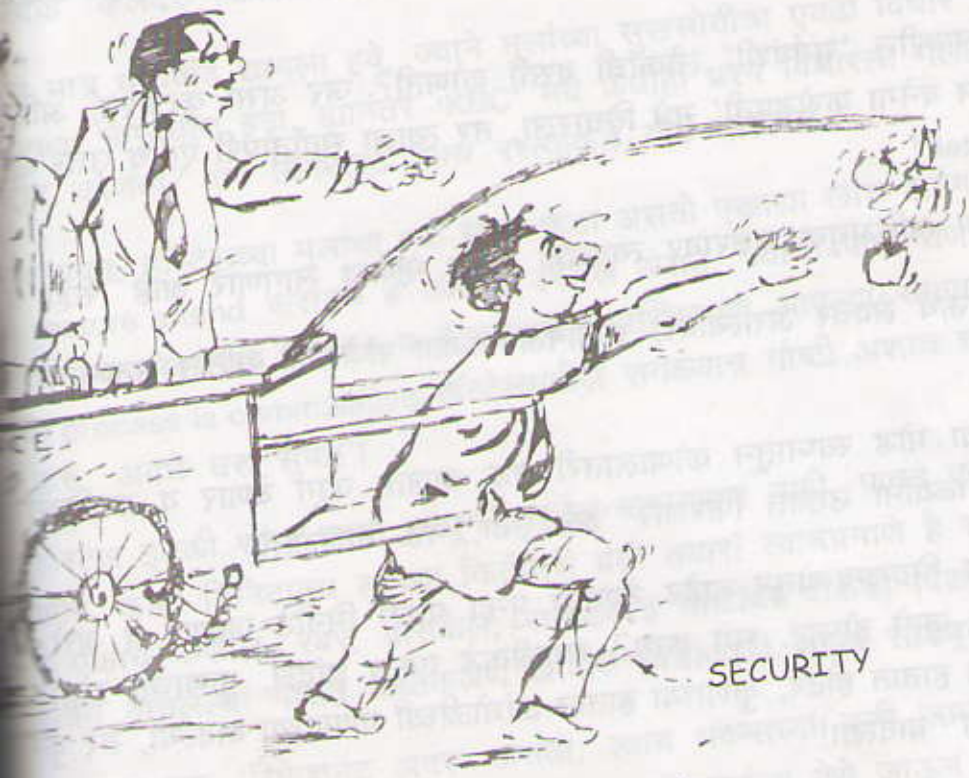
ज्योत तेवते...
तेव्हा स्वच्छ प्रकाश पडतो
वात जळते...
म्हणून आपण कधी का रडतो

डोळ्यातले अश्रू
नाटकी नसतात
अनावर झालेल्या भावनांना
फक्ट वाट करुन देतात

मागून मिळतं
तो प्रेम नसतं
आपल्या वाट्याला जेवढं आलं
तेवढच घ्यायचं असतं

काही काही माणसं
आपल्याच विश्वात जगतात
त्या विश्वात आपली माणसं आहेत
हे मात्र विसरतात.

रामचंद्र
विनय व
तृतीय (



यतिन थोरात
तृतीय (यांत्रिकी)

।। आधुनिक म्हणी ।।

वशिला महान
पैसा जिरवा
अन् महिनाभर थांब
क्लासेस हातभर
लीला मागण्या फार
बेटा गुन्हेगार
ोठेपण तया भेटणे कठीण
वाचले भिकारी
दाणा अन म्हणे फ्रिज आणा
हान त्यांना पैशांची तहान
ची देऊ, अवघे होऊ उत्तीर्ण
त्याचा हुंडा बुडाला
डाभर, दिवा रात्रभर
Calculator ने काढा

दीपक पितांबर महाजन - तृतीय (विद्युत)

१) घरोघरी फॅशनच्या मुली.
२) लोका सांगे कुटुंब नियोजन, घरी डोहाळे जेवण
३) जया अंगी खोटेपण, त्यास मिळे मोठेपण
४) उथळ भाषणाला टाळ्या फार
५) तळे राखी तो पाणी विकी
६) P.L. थोडी, केट्या फार
७) चार दिवस मेकचे, चार दिवस मॅथ्सचे
८) पास होता येईना, म्हणे सरांशी वाकडे
९) KT ला रुलचा आधार
१०) दिसल्या सरांना Good Morning
११) होईन तर सचिन, नाहीतर मिथुन.

संदिप वाळकु सोनावणे - तृतीय (विद्युत)

''हॉस्टेल लाईफ – क्या स्वाद है जिंदगी का

भूतलावरील 'सूर्यवंशी' लोकांची वस्ती कोणती? जर असा कूटप्रश्न, अमिताभ बच्चन ने त्य 'कौन बनेगा करोडपती' मधे विचारला, तर त्याला सर्वोतोपरी एकच उत्तर असणार आहे-'S.P.C Hostel'!

व ह्या अतिअचूक उत्तरावर त्यालाही हसत म्हणाव लागणार आहे 'सही जवाब'!

साडेनऊचं लेक्चर असल्यावर, सव्वानऊ वाजता राजेशाही थाटात उठण्याची सवय असलेली मं ही!

रात्रीच्या गोड स्वप्नातून कोणालातरी नऊ वाजता जाग येणार व काहीतरी प्रलय झाल्यासा तो सगळ्यांना उठवत फिरणार-''अरे उठा, नऊ वाजलेत!''

आपल्या निद्राअवस्थेतून बाहेर येण्यास पुन्हा पंधरा मिनीटे जाणार व असे करत करत एक सर्वजण जागे होणार. मग काय? सगळीकडे एकच धांदल, कुणाच्या हातात टूथब्रश सापड कुणाच्या हातात हीटर, कुणाच्या हातात आंघोळीच्या पाण्याच्या बादल्या, तर कुणाच्या हातात-'ति जाणाच्या' बादल्या!

इन-मिन चार बाथरुम, चार संडास व साधारणतः ४० ते ५० पब्लीक! सर्व थिएटर हाऊस पु बाथरुमच्या दारावर थापा, संडासच्या दारावर थापा! नुसता गोंधळ माजणार, टॉवेल लावून, बाथरु वाट पहाणारा समुदाय, विंगमधे फिरतांना दिसेल, तर अतिमहत्त्वाच्या कामासाठीचा समुदाय, पोटाम अनंत वंदना लपवत विमनस्क चेहऱ्याने, करुण हालचाल करतांना, त्या खास जागी उभा सापड

एवढे सगळे विधी व सोपस्कार आटोपत सहजपणे दहा वाजणार व हमखास पहिल्या lecture दांडी पडणार. लोकल ने अप-डाऊन, करणाऱ्या मुलांचा हा नेहमीचा प्रश्न असतो, की आम्ही हो मधे राहून देखिल कधीच वेळेवर का पोहचत नाही? आता ह्यांना कोण सांगणार की येथे भ पहाटे काय तमाशा असतो ते?

एकंदरीत अशा तल-सुरात S.P.C.E. Hostel ची सुप्रभात होते. दहा वाजेपर्यंत बहुतेक जण त होतात. तर काही महत्त्वाच्या व्यक्ती दुपारपर्यंत लोळत राहतात. अगदी सकाळपासूनच सगळी हाय-बाय सुरु असते. त्यानंतर बहुतेक लोकांचा नाश्त्याला जाण्याचा प्लॅन असतो. मेसमधील खुशखु न्याहरी पेक्षाही खमंग नाश्ता, आम्हाला आमच्या रुम मधे बसल्या बसल्या मिळतो - कारण रम्य सकाळचे खास आकर्षण असते - 'भवन्स ब्यूटी'!

दिवसाच्या सुरुवातीपासूनच ह्या टवटवीत लतिका S.P.C.E. Hostel चा Boys-Zone पार क जातात व नुसत्याच जात नाहीत तर आपल्या मनमोहक हास्याने व हालचालीने सगळ्यांना 'लु

एकीच्याच वर्णनालाच वेळ पुरत नाही तेवढ्यात दुसरी हजर! रोज सकाळी हा फॅशन-टी, कित्येक 'कलंदर' फक्त lunch नंतरचीच lectures attend करतात!

ग्याला मात्र धन्यवाद द्यायला हवे. ज्याने मुलांच्या सुखसोयीचा एवढा विचार केला तच great म्हणायला हवा. ह्यानंतर 'KBC' मधे कधीही प्रश्न विचारला गेला, की न स्ट्रीट कोणता? तर बिनधास्त ह्याच रस्त्याकडे बोट दाखवा!

करण्याबाबत, हॉस्टेलच्या मुलांचा एक खास फंडा असतो एखाद्या खास टाईम टेबल कोणते lecture attend करायचे हे आधीच ठरलेले असते. ज्याची पाळी येणार, तो वेळेवर त्या लेक्चरला जाणार व तितक्याच व्यवस्थितपणे आपल्या रुमपार्टनरची ! This process is cummulative हॉस्टेलमधील सगळ्याच गोष्टी अशाच चालतात हयं करु, अवघे धरु सुपंथ'।

तर हॉस्टेल इतकी सुंदर जागा शोधूनही कुठेच सापडणार नाही. फक्त एक कॉपी चा उशीर, काही मिनिटातच त्याच्या कितीतरी प्रती तयार! त्याचप्रमाणे हे सबमिशन नसते. एकाच पेन्सील, रबर, प्रोसर्कल, राऊंडर इ गोष्टींवर शेकडो विद्यार्थी काम शा रितीने वाचलेल्या पैशात बहुतेकजण आपली विडीकाडी सहज सोडवून घेतात.

वेळेला पुन्हा एक 'रिफ्रेशमेंट अवर' असतो. त्याच भवन्सच्या मुली जातांना सुद्धा ' करुन जातात. जुहू बॅडस्टँड, गिरगाव किंवा मरीनलाईन्स येथे जाऊन 'सन-सेट' आमच्या हॉस्टेलच्या बाल्कनीमधे उभे राहून पहा, दिवसासुद्धा तारे-पहायला मिळतील!

ल्यानंतर मेसमधे गर्दी जमू लागते. आपल्या आवडत्या सहकाऱ्यांबरोबर त्या सहभोजनाची ही औरच असते.

क्षितीजापलीकडे जाण्यासाठी मात्र सूर्यदेवतेला जरा जास्तच वेळ वाट पहावी लागते. वढ्या उशीरा सुरु होतो, त्यापेक्षा कितीतरी जास्त वेळाने तो अस्त होतो. सगळीजण होता कमीतकमी तीन वाजून जातात. बहुतेक रुममधे सबमिशन सुरु असते. कुणाकडे डे गाणी, कुणाकडे पत्ते, तर क्वचित कुणाकडे अभ्यास सुरु असतो. सगळ्या रुम एक कार्यक्रम म्हणजे 'Day Analysis' अर्थात दिवसाचे पृथःकरण. विविध शाखेची सल्याने ह्या Day Analysis ला खासच मजा येते. प्रत्येक वर्गात, प्रत्येक दिवशी काय पूर्ण घडले ह्यांचा इत्यंभूत पाढा वाचला जातो व ह्याही चर्चेचा मानबिंदू असतात, C.E. च्या मुली! कोणात्याही वर्गातली मुलगी असो, तिचा 'अथः' पासून तर 'इति' स मुले शोधून आणतात व खास शैलीमधे तेही मध्यरात्री, ह्या मैफिलीमध्ये सादर र्णन इतके अप्रतिम असते की, रुममधे बसल्या बसल्या वास्तवाचा साक्षात्कार होतो! ट, कोलाहल ह्यांनी भरुन जाणारी ही वास्तू, ऋतुमानाप्रमाणेच एक खास बदल अनुभवते. या दिवसांबरोबरच मुलांचे आराखडे देखिल बदलतात, व ह्याचा मुख्य अनुभव येतो

'परिक्षेच्या वेळेत'! इतर अनेक लाटेप्रमाणे येथे अभ्यासाची लाट येते, ती परिक्षेच्या २०-२५ दिव अगोदर गोंधळाच्या विश्वात बदल होऊन एकदम तणावाचे वातावरण निर्माण होते. प्रत्येक ज ज्याच्या त्याच्या गडबडीत; ज्याच्या त्याच्या विचारात. शेवटी शेवटी तर हा तणाव खूपच वाढ व तेव्हा मात्र ही जागा कंटाळवाणी, नकोशी वाटायला लागते. एवढी एकच वेळ असते, जेव्हा हॉस्टेलच वैताग येतो.

परिक्षेतील एक-एक दिवस बोटावर मोजून काढावा लागतो. पण तीच परिक्षा संपल्यानंतर मात्र पुन्ह अलौकिक मजा अनुभवास येते.

ह्या बसतिगृहात राहून आपल्या शब्दसंपत्ती मध्ये कमालीची समृद्धता येते. विविध भागातील मुलांकडू खूप अनोखी Word list (?) गोळा होते. 'अभ्यासाव्यतिरिक्त पुस्तकांचे' येथे एक ग्रंथालयच सापडते. मराठी, हिंदी, इंग्रजी व कधीकधी इतर भाषांतीलही विविध 'समृद्धतेने नटलेली' पुस्तके हे ह ग्रंथालयातील प्रमुख आकर्षण असते. ह्या 'रुचकर' वाचनीय पुस्तकांसाठी सगळेच जण ह्या ग्रंथालया नेहमीच ऋणी असतात.

घरच्यांपासुन दूर आलेल्या मुलांचे, स्वअस्तित्व असलेले स्वतःचे व इतरांपासून खूप वेगळे जग असलेल जागा म्हणजे वसतीगृह होय. येणारा प्रत्येक दिवस, काहीतरी नवीन शिकवून जाणारा असतो. बौद्धिक शक्तीव्यतीरिक्त इतरही सर्वच गुणांना चालना देणारी व स्वव्यक्तिमत्त्वाचा विकास घडवू आणणारी, ही जागा होय. स्वतःच्या खांद्यावरील जबाबदारी ओळखून ती समर्थपणे पार पाडायलाह हीच जागा शिकवते. Adjustment म्हणजे काय? व 'Budget' कशाला म्हणतात हे ही येथेच व्यवस्थि समजते.

अशा नाट्यपूर्ण, विस्मयकारक, भावपूर्ण व विविधरंगी जीवनाचा अनुभव देणारी ही जागा पाहिल्या मात्र एकच म्हणावेसे वाटते.

'हॉस्टेल लाईफ – क्या स्वाद है जिंदगी का'

नितीन देशपांडे
तृतीय विद्यु

य' मराठी विषयी थोडेसे.....

आद्य कवी	-	ज्ञानेश्वर
कादंबरीकार	-	हरी नारायण आपटे
विनोदकार	-	श्री. कृ. कोल्हटकर
इतिहास संशोधक	-	कै. वि. वा. राजवाडे
कोशकार	-	डॉ. केतकर
नाटककार	-	कै. विष्णुदास भावे
संगीतनाटककार	-	आण्णासाहेब किर्लोस्कर
लघुनिबंधकार	-	ना. सी. फडके
धुनिक कवितेचे जनक	-	केशवसुत
चरित्रकार	-	महिपती
ले वाक्य	-	म्हैसूर संस्थानातील ''श्रवण बेळगोळ'' येथील शिलालेखात इ.स. ९८३ मध्ये सापडले.
मान्य आद्य ग्रंथ	-	''ज्ञानेश्वरी''
ले साप्ताहिक	-	दर्पण (पुणे)
ले मासिक	-	दिग्दर्शन (मुंबई)
ली कादंबरी	-	यमुना पर्यटन (१८५७)
ली ऐतिहासिक कादंबरी	-	मोचनगड (१८७१)
ले नाटक	-	प्रबोध आणि चंद्रोदय (१८५१)
ला चित्रपट	-	राजा हरिश्चंद्र

जितेंद्र सातपुते
अंतिम (यांत्रिकी)

'जावा (JAVA)'

आजचे युग हे संगणक युग म्हणुन ओळखले जाते, व सध्या सर्वत्र Internet चाच बोलबाला आ Internet मुळे वेगवेगळ्या क्षेत्रातील माहितीचे दरवाजे खुले झाले आहेत. ज्या योगे आपल्या गरजा व व्यवहार फारच सुलभ झाले आहेत. एखाद्याला E-mail पाठविण्यापासून ते On-line विषयांवर सल्ला मसलत करण्यापर्यंत आपण Internet चाच वापर करतो. Internet ने सर्व विश्वच संकुचित होऊन गेले आहे. विश्वाच्या एखाद्या काना-कोपऱ्यात असलेला को दुसऱ्या एखाद्या कॉम्प्युटरशी सहज रीत्या संभाषण साधू राकतो, तेही प्रत्येक कॉम्प्युटरची स आज्ञा प्रणाली (Opening System) वेगवेगळी असूनही! कुणाही व्यक्तीच्या मनात सहज प्रश्न जाईल की हे कसे शक्य आहे? त्याचेच उत्तर देण्यासाठी या लेखाचा प्रपंच.

त्या करीता आपण व्यवहारातले साधे उदाहरण घेऊ. आपल्या भारतात 'महाराष्ट्र', 'गुजरा अनेक राज्ये आहेत. त्या त्या राज्यांच्या स्वतःच्या स्थानिक भाषा मराठी व गुजराथी आहेत या दोन राज्यातल्या २ व्यक्तिंना एकमेकांशी संभाषण साधायचे असेल, तेव्हा ते हिंदी या रा दुवा घेऊन संभाषण करतात. संगणकांच्या बाबतीत ही तेच लागू पडते. व त्यात JAVA ही (Language) ही दुवा ठरते व तीच इंटरनेटच्या राज्यातील गुरुकिल्ली बनून राहिली आ या बहुमूल्य JAVA परिभाषेची आपण ओळख करुन घेऊ या.

JAVA या परिभाषेची निर्मिती James Gosling, Patrick Naughton, Chris Warth, E आणि Mike Sheridan (Sun Microsystem) या 5 जणांच्या समूहाने केली. त्यांना 98 महीने लागले. JAVA चे आधीचे नाव 'OAK' होते पण नंतर ते बदलून 1995 साल असे करण्यात आले.

तुम्हा सर्वांना वांचून आश्चर्य वाटेल की JAVA च्या निर्मितीमागे Internet नव्हते. त्या Oven, Remote Control अशी इलेक्ट्रॉनिक उपकरणे. शास्त्रज्ञ अशा Software च्य होती की, जे संगणकात असलेल्या Hard-ware वर (C.P.U.) अवलंबून नसेल. त्याच करता करता त्याचा उपयोग Internet साठी ही करता येऊ शकेल असे लक्षात आल दृष्टीने पावले टाकण्यात आली.

संगणकांच्या निर्मितीपासूनच त्याच्या आज्ञावलींमध्ये क्रमा क्रमाने बदल होत गेले. हे बदल होत विविध प्रकारच्या भाषा, उदा. Basic, Fortran, C, C++ निर्माण झाल्या. त्या निर्मिती मागे Prog चा पहाण्याचा दृष्टीकोन कारणीभूत होता. कधी त्याकरीता एकसर पद्धती (Sequential P ming) तर कधी 'वस्तुनिष्ठ' (Object Oriented) पद्धतीने विचार करण्यात आला. या सर्व Languages मधून चांगले गुण एकत्र करुन JAVA ची निर्मिती झाली.

ण वैशिष्ठये खालील प्रमाणे आहेत.

ity (साधेपणा) : जे लोक आधीच Programming या कार्यक्षेत्रात आहेत, त्यांना शिकायला अवघड जाऊ नये म्हणून C/C++ सारख्या Language चा Syntax वला आहे. त्यामुळे नवीन लोकांस व जुन्या लोकांसही तो वापरणे सहज शक्य आहे.

y (सुरक्षितता) - JAVA चा सर्वात मोठा गुण म्हणजे 'सुरक्षितता' संगणक श्रेत्रात तचे अनन्य साधारण महत्त्व आहे; सुरक्षितता जर नसेल तर तुमचा Data व Software t झालीच म्हणून समजा! काळाच्या कसोटीवर JAVA तरुन गेली कारण त्याचा स्वतःचा ode (हा Byte Code म्हणजे एक छोटासा आज्ञावलीचा संच तरुण गेली) JAVA ne machine कडून (JVM) कडून Execute केला जातो. व ठराविक संचा पलीकडील ाला समजत नाहीत. त्यामुळे हा Code Currupt होण्याची भीतीच उरत नाही. सर्व nment मधील Byte Code हा समानच असतो फक्त Run Time वेगळे असते.

गीय (Portable) संवहनीय - (Byte Code) समान असल्यामुळे तो एका वातावरणातून nment) दुसऱ्या वातावरणात वाहून नेणे सहज शक्य आहे.

ically changeable – JAVA चे एक स्वरुप म्हणजे Applet होय. हिचे Execution प वापरणाऱ्याच्या आज्ञावली प्रमाणे सतत बदलत राहते.

Oriented-JAVA Language वस्तुनिष्ठतेला महत्त्व देत असल्यामुळे नवीन नवीन ती स्वतःत सामावून घेऊ शकते?

hreading-JAVA स्वतःच्या अनेक प्रतिकृती निर्माण करुन आपली कार्यक्षमता वाढवू

ge विषयी लोकांत काही गैरसमज ही आढळून येतात.

चा वापर-काही लोकांचा असा दावा आहे की JAVA त Pointer नाहीत पण हे त्याचा Syntax जावात नाही पण अप्रत्यक्षपणे त्याचा वापर हा होतोच.

आणि JAVA हे सारखेच आहे, असेही काही लोकांना वाटते पण ते सुद्धा खोटेच TML ही फक्त वेगवेगळ्या Links connect करण्याची सुविधा आहे.

ा खरोखरच आजच्या संगणक विश्वाला वरदानच ठरली आहे.

आनंद अ. गोडबोले
प्राध्यापक कॉम्प्युटर विभाग

पंचायतीची पंचायत

आमच्या गावची पंचायत! सरपंच गणपतराव पाटील आपल्या खुर्चीवर पोटाचा नगारा करुन, टक्कल उघडे पाडून, आपली गांधीटोपी तोंडावर पांघरुन निवांत घोरत बसले होते. तेवढ्यात टेबलावरचा तो बंद पडलेला टेलीफोन कधी नव्हे तो ट्रिंग-ट्रिंग करु लागला, तसे सरपंच आपली आगीनगाडी थांबवून खडबडून जागे झाले आणि चाचपडत त्यांनी फोन हातात घेतला-''हालो, कोन पायजे च्या मायला!''

तिकडून - ''हॅलो, मी धावत्या गाडीतून बोलतोय. आम्ही जि.प.ची माणसं inspection साठी येतोय इतक्यात समोरच्याने फोन ठेवला. धावत्या गाडीतून बोलतोय म्हटल्यावर सरपंच गांगरले आणि ती माणसं एक-दोन मैलांवर असू शकतील या कल्पनेनं तर त्यांना फासच लागला. फोन अजून हातातच-''पण सायेब, व्हिजिट पुढं नायका ढकलता येणार?'' समोरुन काहीच प्रतिसाद येत नाही म्हटल्यावर पंचांनी फोन उलटा धरुन पाहिला तरी नाही - ''भउतेक भयरं झालं वाटतं'' आणि ताडकन फोन आपटला. त्या आवाजान-पंचायतीत नेहमीच रेंगाळणारी चार माणसं गोळा झाली. गणपतरावांनी आपला सदरा सावरला.

''गंपतराव, झालं काय?''- सदा कुंभारानं विचारलं.

तेवढ्यात बाहेरनं जीपचा हॉर्न ऐकू आला आणि गणपतरावांची तारांबळच उडाली.

बीगी-बीगी धावत ते दाराजवळ आले. त्या घाईत त्यांनी टेबलावरचा पाण्याचा ताब्याही लवंडला. आपल्या घोळदार विजारीची लांबलचक नाडी सावरत ते साहेबांच्या स्वागताला तयार झाले. दोन सफारीवाले गाडीतनं उतरले तर त्यांना पिक्चरचे पोस्टर दिसले.

''या साहेब या, नमस्कार'', सरपंचानी त्यांच स्वागत केलं.

''सरपंच आपणच का?'', साहेबानी विचारलं.

सरपंच:''व्हय, व्हय म्या गंपतराव पाटील या गावचा सरपंच''

''काय हो ग्रामपंचायतीचा काही बोर्ड वगैरे आहे की नाही?''

सरपंच:''हाय की, त्यो काय!'' सरपंचांनी त्या पोस्टरकडे बोट दाखविले.

''अहो, ही पंचायत आहे कि थेटर?'' दुसऱ्याने विचारले.

सरपंच:''सायेब काल गावची जत्रा नव्हती का? 'शोले' ठेवलावता.''

'ग्रामपंचायत मौजे आंबवडे' च्या जागी 'शोले'च पोस्टर पाहून ते अवाक् झाले. मग सरपंचांनी त्यांना आतमध्ये येण्यास सांगितले.

सरपंच:''बसा सायेब, पक्या चार कप च्या ठेव रं, हं बोला आता''

ाय प्रश्न विचारावेत असा प्रश्न पडला.

सुरुवात केली-''सरपंच मला एक सांगा, आपल्या गावची लोकसंख्या किती हो?''

घा यंदा काय फारसा चढउतार नाय, खरं मागच्या म्हैन्यात तुक्याची म्हातारी मेली
चं आबा.''

खुशखबर दया की?''-सदा कुंभारानं गोळी सोडली.

हय सायब, मागल्याच म्हैन्यात कारभारणीला जुळं झालं. म्हंजे एकूण एकच.''

ायतीतली बाकिची माणसं कुठं आहेत?''

हाय साहेब, सुगी तोंडावर आलीया, भांगलन-फिंगलन चालू हाय?

कारभार अगदी सुरळीत चालू आहे तर?''

झकास''

ात साक्षर लोक किती?''

य इचारु नका. गावात कोणबी आडाणी न्हाय. समद्यासनी समदं कळतं.''

ीसाठी समदयांच्या सह्या घ्यायला गेलो तर सर्वांनी आनंदानं आंगठा दिला. तेवढ्यात
वी नेहमीच्या सवयीप्रमाणे झुलत-झुलत ग्रामपंचायतीत घुसला. तोच सरपंचांना घाम
नी नाक बंद करुन घेतले.

च काय चाललंय? आपले समदे मेंबर भट्टीवर कवाच्यांनं तुमची वाट बघत्यात. तुम्ही
एक घोटही घेणार नाय असं म्हणत्यात. शेवटाला म्याच तुमास्नी बोलवायला आलूय.
शीर नगा करु.''

जणांनी शिवाला उचलून बाहेर नेलं.

काय करताय? सोडा, सोडा मला''

च काय चाललंय? कसली भट्टी? कसला घोट? आणि कोण होता तो?''

डले:''अहो वीट-भट्टी हो. यो शिवा चालवतो. फार जोरात चालते बघा.''

चा घोट दिल्याशिवाय कामच चालू होत नाय!

कोण? तुम्ही काय?''

या चहा घेऊन आला.

साहेब, घोटभर चहा घ्या''

के मारत विचारलं-''गावची शाळा काय म्हंते?''

सरपंच-''शिक्षणात आमचा गाव काय कमी न्हाय. तब्बल चौथीपातुर शाळा हाय. यंदा ए वर्ग वाढवायचा इचार डोक्यात हाय. दोन वर्ग आपल्या चावडीत अन् दोन मारुतीच्या देवळ बसत्यात.''

इतक्यात यादव मास्तरांनी खांदयावरचा वैरणीचा बींडा खाली टाकला, जनावरं बाहेर होती खुरपे घेऊन ते आत घुसले. ''सरपंच, त्या शिवाकडं फळा आणण्यासाठी पैसे दिले हे त्याचं काय झालं?''

सरपंच पुन्हा चाचपडले. ''अजून आणला न्हाय व्हाय? मी जाणारच हाय बोलतो त्याला.''

मास्तर-''लवकर सांगा त्याला. मी येतो. ढोरास्नी पानी दावायचं हाय.''

अशा तऱ्हेने सरपंचानी मास्तरांना 'टोपी' लावली. मास्तर बींडा उचलून निघाले.

साहेबांनी हा सर्व प्रकार बघितला-''झाक शाळा चालवलीय?''

सरपंचांनी सदऱ्याला घाम पुसला तेवढ्यात त्यांची मालकीण रागाच्या भरात खेकसत आत घुसल ''काय हो? कुठं हायसा कालच्यानं. शिवानं समदं सांगितलयं मला. काय बायका-पोरांची क फिकिर हाय का नाय?''

साहेब-''काय सरपंच, काय म्हणतायत या?''

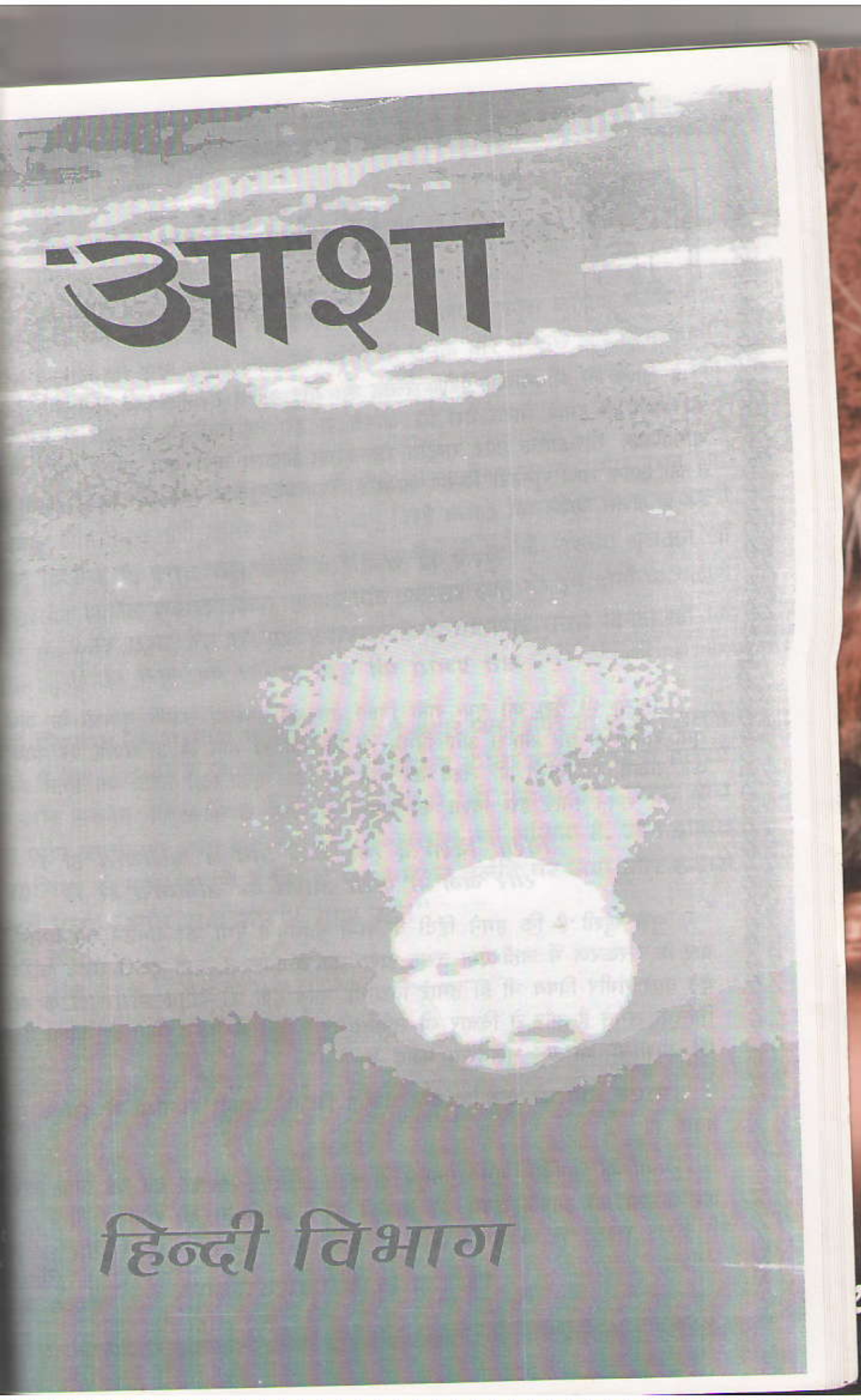
सरपंच-''त्याचं काय हाय साहेब. गावची निवडणूक आलीया तोंडावर. प्रचारकाम कशी अगदी जोर चालू हायत. त्यातनं सवडंच मिळत न्हाय वं. पुन्हा पदावर रहायचं म्हणतोय.'' असा हा सर्व प्रक साहेबांच्या चांगलाच लक्षात आला होता. साहेब रागाने बाहेर पडले. तो समोरच्या आरोग्य केंद्रा फलकावर पोस्टर होते.

'आपल्या गावचे खंबीर नेते, दारुबंदी चळवळीचे प्रणेते,
श्री. गणपतराव पाटील यांनाच प्रचंड मतांनी विजयी करा-
त्यांची निशाणी 'बाटली'

तेवढ्यात शिवा पहिल्यापेक्षा जास्तच झुलत आतमध्ये शिरला व म्हणाला-''सरपंच, चला की भट्टीवर

गणेश पाटील
अतुल घानापुरे
तृतीय (संगणक

आशा



हिन्दी विभाग



''संपादकिय''

आशा

आशा ही जीवन का प्रेरणा स्त्रोत है, और आशा है आज की युवा शक्ति से, यानी आज से। आशा है हमारे भारत देश कि आपसे के इस नई सदी के नव वर्ष में हम अपने जीवन में सामाजिक, सांस्कृतिक और राष्ट्रीय चेतना का विकास करें। युवा शक्ति एक उगता हुआ सूरज है जो अपने साथ सुनहरी किरणें लाता है। तेजस्वी सूर्य ही की भाँति युवा शक्ति में, इस संसार को प्रकाशित करने की क्षमता है।

सूरज हो चन्दा हो, तुम ध्रुव तारा हो ।
तुम भविष्य की आशा और सहारा हो ।।
तुम विकास सहयोग शान्ति की धारा हो ।
नव प्रभात की युवा शक्ति का नारा हो ।।

किसी भी देश को एक सही दिशा देने की आशाए उसके युवाओं के कंधों पर होती है। युवा शक्ति में वह साहस और हिम्मत है कि यदी वे ठान लें तो धरती पर आकाश का निर्माण कर सकते है। किसी भी लक्ष्य को पाने के लिए एक सही दिशा का होना अत्यन्त आवश्यक है। हम सबने मिल इस दिशा को अपनी आशाओं से जोडा है।

'दिशा' दिशा दे हमें, कही अब न अंधियारा हो ।
सारे जग में फैला आशा का उजियारा हो ।।

मुझे खुशी है कि हमने हिंदी के सभी इंद्रधनुषी रंगो को समेटने का प्रयत्न किया है। इस बार के संस्करण में जहाँ एक तरफ हास्य का समावेश है, वही दूसरी तरफ मस्तिष्क को झंझोड़ देने वाले गंभीर विषय भी हैं। हमारे विद्यार्थी अपने देश की दैनिक परिस्थिती के बारे में भी कितने चिन्तित लगते है और ये विचार भी उन्होंने बहुत खूबी से प्रकट किये है। आशा है आपको युवा पीढ़ी की आशाओं का यह गुलदस्ता पसंद आयेगा।

मैं उन सभी को धन्यवाद देना चाहूँगा जिन्होंने अपनी रचनाओं से इस संस्करण की शोभा बढ़ाई है।

मागलिक, हार्दिक शुभकामनाओं के साथ ''दिशा २००१'' का यह अंक आप सबके पास भेजकर कमलों को आपके हृदय को आपकी परम आत्मीयता को समर्पित है।

रवि तोदी
संपादक (हिंदी विभाग)

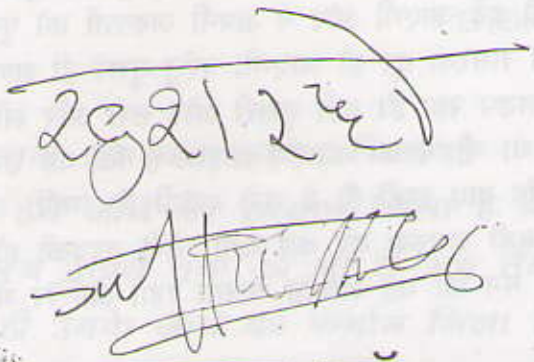
सुनहरे पल

रवि तोदी - T.E. (Electronics)

वरी सन २००१, भवन्स का प्रांगण था और सरदार पटेल कॉलेज का वार्षिक
आज की शाम हमारे साथ जो हस्ती थी उनके बारे में कुछ लफ़्ज़ों में कहना
बल्कि नामुमकिन है। जिनका नाम ही उनकी पहचान है। बरसों से इनकी
ाँ के कानों में गूँज रह है।

ा हूँ श्री. सुलतान खॉ साहब की वैसे तो इन्होंने उस्ताद अमीर खान, पं.
श्रीमती किशोरी आमोणकर जैसे कई विश्व प्रसिद्ध कलाकारों के साथ अपनी
दिखाया है, परंतु आज की शाम अविस्मरणीय थी क्योंकि उस्ताद सुलतान खॉ
ताद ज़ाकिर हुसेनजी दोनों एक ही मंच पर उपस्थित थे। इन दोनों कलाकारों
मंत्र-मुग्ध कर दिया। कार्यक्रम की समाप्ती के बाद मैंने उनसे बिनती की कि
कोई संदेश दें।

जिनका दूसरा नाम स्टूडेंट्स भी है वे बहुत प्यारे होते हैं। वे हमें इतने
हैं कि जब भी ये मिलते हैं तो दिल करता है कि ईश्वर करे ये हमेशा
ौर हमेशा हमारे बीच में ऐसे ही प्यार से रहें। इनके और हमारे बीच
ौर वार्तालाप बना रहे। ये बच्चें हिन्दुस्तान का भविष्य है, और इनके
लिक से दुआ करते हैं कि ये बहुत-बहुत बुलंदि पर जाएं और हमारी
इनके साथ सदा रहेंगी। खुश रहो!"



सुलतान खॉ

न हस्ती से मेरी मुलाकात मेरे जीवन काल के अब तक के
यादगार पलों में से एक है।

आधुनिक युग और नैतिकता

महेश फतेहचंदका - T.E. (Electronics

चाँदनी रात में छत पर बैठा मोहन न जाने किस चीज की तलाश उस विराट आकाश में कर रहा था। टिम-टिमाते तारे उसे अपने भाग्य के समान प्रतीत हो रहे थे, जो एक पल तो चमकता है और दूसरे ही पल उसकी रोशनी अंधकार में बदल जाती। मंद-मंद हवा के झोके चल रहे थे। परंतु फिर भी मोहन की आँखों में नींद न थी, वह मध्यम वर्ग का था, उसकी आमदनी भी कुछ खास न थी। उपर से घर में आठ लोग थे। माँ, बाबुजी, पत्नी, दो बेटियाँ और एक बेटा, एक और चाचाजी। कहने को तो घर में इतने लोग थे, परंतु उनमें कमानेवाला कोई नहीं। रोज वह जितना कमाता, वह केवल उनके पेट भरने में चला जाता, कभी कोई बीमार हो तो उसका इलाज कराओ।

मोहन कभी भी अपनी इच्छा पूर्ण न कर पाता था। उसे अच्छा पहनने, खाने तथा कभी-कभी परिवार के साथ बाहर घूमने जाने का मन करता, पर इतने कम रुपयों में तो यह संभव न था। एकाएक उसके मन में कितनी बातों के तूफान उठने शुरु होते हैं। उसे ख्याल आता है कि उसे एक घड़ी की जरुरत है। जिसकी कमी के कारण वह समय पर दफ़्तर नही पहुँच पाता है। घड़ी न होने के कारण उसके कई काम समय पर पूरे नहीं होते। उसके अफसर उससे नाराज रहते हैं। परंतु बच्चों की माँग, माँ-बाबुजी की ज़रुरतें, इन सबको पूरा करने के बाद उसके पास पैसे बचते ही नहीं थे कि वह एक घड़ी खरीद सके। परंतु ऐसी स्थिती में भी उसने कभी किसी के साथ बेईमानी नहीं की।

विचारों के इस विशाल सागर में वह न जाने कब तक खोया रहता कि अचानक एक जोरदार धमाका हुआ। उसकी तंद्रा टूटी वह नीचे आया कि देखे क्या हुआ। बाहर निकलकर उसने देखा दो रेलगाड़ियाँ आपस में टकरा गई थी, जिसके कारण धमाका हुआ था। आस-पड़ोस के सब लोग घरों से बाहर आ गए थे। कुछ घायलों की मदद कर रहे थे, तो कुछ उनके सामानों को लूट रहे थे। मोहन भी घायलों की मदद करने की नीयत से घर से बाहर निकला। तभी उसकी नजर एक बूढ़े व्यक्ति पर पड़ी जो कि घायल हो गया था। मोहन उसकी मदद करने के लिए आगे बढ़ा। अचानक उसकी नजर उस बूढ़े व्यक्ति की घड़ी पर गई जो कि शायद झटके के कारण खुल गई थी। उसे याद आया कि अगर यह घड़ी मिल जाए तो मेरी समस्या दूर हो सकती है। मैं सब काम समय पर कर सकता हूँ और मेरे अफसर भी मुझसे खुश हो जाएंगे। और मुझे तरक्की मिल जाएगी। जिससे मेरी आमदनी बढ़ जाएगी और मैं अपनी जरुरतों को पूरा कर सकूंगा। यह घड़ी अगर मुझे मिल जाए तो मेरी बहुत बड़ी समस्या दूर हो जाएगी। परंतु दूसरे ही क्षण उसे उस व्यक्ति की कराह सुनाई पड़ती है जो पानी के लिए तडप रहा है। वहीं दूसरी ओर उसे और लोग भी दिखाई पडते हैं जो कि उस घायलों का सामान लूट रहे थे। मोहन का अंतर्मन चाहता है कि वह उस घायल की मदद करे। परंतु वहीं दूसरी ओर उसकी जरुरतें मुँह बाए खडी हैं। वे उसे कहती हैं, 'नहीं' उस बूढ़े की घड़ी निकाल और चल क्योंकि यह घड़ी तेरी बहुत बड़ी समस्या दूर कर देगी, तेरी तरक्की हो जाएगी, तेरे सारे अरमान पूरे हो जाएंगे। बहुत देर तक उसके मन का यह अंतर्द्वंद्व चलता रहा। आखिर में उसने अस बूढ़े की घड़ी निकाली और चल दिया।

यह कहानी उस आम आदमी की है, जो चाहता है कि वह ईमानदारी करे, दूसरों की मदद करे परंतु उसकी जरुरतें इतनी बड़ी है कि उसके आगे उसकी ईमानदारी, उसकी नैतिकता अपना दम तोड देती है। यही कारण है कि आज समाज में चारों ओर अनैतिकता, बेईमानी, अराजकता फैल रही है। अगर एक आदमी की जरुरतें पूरी ना की गई तो वह दिन दूर नहीं जब इन्सान, इन्सान न होकर, बेईमानी, अनैतिकता का पुतला बन जाएगा।

जागते रहो

नीरद इनामदार - F.E. (I.T.)

ार प्रकृति का वर्चस्व देखा जाता है। पल-पल जीव-जंतुओं को इस वास्तविकता से समझौता वे सब किसी अद्‌भुत शक्ति पर निर्भर हैं। और सच्चाई यह भी है कि उसपर काबू करना ीन है।

कृति को समझ सकते हैं। उसे अपने फायदे के लिए इस्तमाल कर सकते हैं। इसके लिए संसार जानना जरुरी है। इसी लक्ष्य की पूर्ति की शुरुआत होती है, जिज्ञासा नामक सद्‌गुण से। किंतु जिज्ञासा या कौतुहल अधिकाधिक ज्ञान पाने की चाह का नाम है। जीवन की तमाम घटनाओं च्छा है।

कृति ही अपने आपमें एक पहली है; किंतु सका उत्तर भी सवाल करके ही मिलता हैं। मतलब चाहिए। क्या? क्यों? कब? कहाँ? कैसे? कौन?, यही प्रश्न अपने ज्ञान उत्तरों के उगम होते सभी खोज एवं आविष्कार इसी जिज्ञासा के नतीजे हैं। और देखा जाए तो मूलतः विज्ञान का ही हुआ है। आगे बढ़कर ध्यान में आता है कि हमारा पूरा ज्ञान इसी माध्यम द्वारा प्राप्त हुआ य प्राणियों तथा पशु-पक्षियों से अलग माना जाता है, तो किस वजह से? उसे एक वरदान मिला है। आस-पड़ोस का जान लेने की आग और इसी को कुतूहल नाम दिया गया है।

नहीं किया, उसने कोई उत्तर नहीं पाया। परिणाम यह हुआ कि उसने तनिक भी प्रगति नहीं में जिज्ञासा अत्यावश्यक होती है। इसलिए, मनुष्यगण! इस जिज्ञासा को बनाए रखो। दूसरे शब्दों

गझल

सुगंधा मेस्त्री
T.E. (Electronics)

आज इक नया इनाम मिला है
जैसे हमें जीने का सामान मिला है ।
हम कलम उठाने तक को ना थे अब तैयार
ऐसे में ही उनके जाने का फर्मान मिला है ।
ख्वाबोंको बिखरे हुए तो मुद्दतें गुजर गई ।
आज हम बिखरे जो ये अर्मां मिला है ।
तनहाई से जीतना है तो ना बनो खुद से तनहा
बादल को एक नया आसमां मिला है ।

रोज एक जंग

नितीन त्रिवेदी - S.E. (Electrical

'अबे! अंदर घुस', 'चल भाई अंदर', 'बाहरवालों को गिराएगा क्या?'

ये वाक्य उनके लिए अतिसामान्य हैं जो दिन-रात लोहपथगामिनी पर अपनी यातायात के लिए निर्भर हैं।

परंतु जो अपने कॉलेज या उसके इर्द-गिर्द इलाकों में फैले हुए हैं उन्हें इस आनंद से वंचित नही रखा जा सकता। आप सोचेंगे ये भला कैसा आनंद? हाँ भाई, यह आनंद ही है।

सबसे पहले तो आपको लोहपथगामिनी (ट्रेन) में यात्रा करने के लिए कुछ छाटी- बड़ी परीक्षाओं से गुजरना होगा। जिस तरह आप लाईसेंस के लिए देती हैं, ठीक उसी तरह। इन परिक्षाओं में उत्तीर्ण होने से कुछ फायदा तो नही है, पर कुछ नुकसान भी तो नहीं है। ये परीक्षाएँ कुछ इस प्रकार हैं।

१) आपका कद जितना लंबा हो उतना अच्छा। बल्कि आप की ऊंचाई ५'८'' (जो एक आम भारतीय की है) उससे ज्यादा होनी चाहिए। इससे आपको साँस लेने में दिक्कत नही होगी जब ट्रेन खचा-खच भरी हो। उसी तरह आगेवाले के बाल भी आपके नाक या मुँह में नहीं जायेंगे और आपको छींक नहीं आयेगी।

२) आपके हाथ लंबे होने के कारण आप दूर-से-दूर स्थित हैंड़ल को पकड़ सकेंगे। भुजाओं में इतना बल होना चाहिए कि यदि पाँव रखने की जगह न हो तो अपने बाजुओं पर ही अपना वजन उठा सकें।

३) आपके साथ जो सामान या बैग हो वह हल्का होना चाहिए और पाँव में सख्त और मजबूत जूते। इससे २-४ यात्रियों के पैरों का वजन भी आप उठा सकेंगे।

४) आपको नारियल तेल, चमेली तेल, सरसों का तेल, इत्यादि दुर्गधों से बचने की क्षमता रखनी चाहिए।

५) जेब में एक कंघी या पेन रहनी चाहिए जो पंखा चालू करके आपको खड़े-खड़े लोरियाँ गाकर सुला सके।

६) चलती ट्रेन में उतरने-चढ़ने की आपको आदत डालनी होगी।

७) ४-५ मोबाईल फोन जब बज रहे हों तब उसमें अपना मोबाईल फोन बज रहा है कि नहीं ये जानने की अद्‌भुत शक्ति होनी चाहिए।

हाँ! मैं आनंद की बात कर रहा था। मुफ्त में जब आपकी सुबह-शाम अच्छी-सी मालीश हो जाए तो अफ़सोस ही क्या है? और वह भी तेल+पसीना मालीश। दुसरा फ़ायदा ये हैं कि किसी भी जनाब का अखबार, मैगज़ीन आप माँगकर पढ़ सकते हैं। इसी प्रकार लोगों में हो रही चर्चा सुन सकते हैं जिससे आपको देश-विदेश की खबर तुरंत मिल सकती है। आज शेयर-बजार में क्या भाव था, कल के.बी.सी.में क्या हुआ, कौनसे राजनीतिज्ञ ने इस्तीफा दिया, इत्यादि खबरों को फैलनेमें आग से भी कम वक्त लगता है। और यदि आप उनकी चर्चा में खुद पड़े तो इससे आपके नए दोस्त भी बन सकते हैं।

तो जबभी सुनता हूँ कि आज ट्रेन बंद है क्योंकि पटरी टूट गयी या ट्रेनसे भैंस कट गयी या पटरी पर पोल गिर गया तो बड़ा अफ़सोस होता है। मैं एक दिन कुछ जानते-सुनने से वंचित रह जाता हूँ। मैं निराश हो जाता हूँ।

अंत में मैं यही कहना चाहता हूँ कि मुंबई में लोकल ट्रेनों से यात्रा करने वालों का ओहदा कारगिल के वीर से भी ऊँचा है (हँसो मत)। कारगिल के वीर तो एक ही बार शहीद होके 'अमर जवान' बन जाते है पर हम तो यहाँ रोज ही शहीद होते है।

फॉरेन रिटर्न हिन्दी

महेश फतेहचंदका - *T.E. (Electronics)*

की बात चली तो हल्ला मचा कि हिन्दी की प्रगति का जाएजा लेने के लिए हमारे
विदेश क्यों गया ? मैं कहता हूँ क्यों न जाए? हमारे देश की तो परंपरा ही रही
चीज़ विदेश के रास्ते वापस आए उसी को सिर माथे पर लो वरना पडी रहने दो

है न, यहाँ वकालत करते थे, तो कोई जानता तक नहीं था । दक्षिण अफ्रिका गए
र नाम कमाया तो यहाँ लौटने पर सिर आँखों पर लिए गए ''फॉरेनरिटर्न सत्याग्राही''
।

राष्ट्रीय पुरस्कार जीतने की ख्वाहिश नहीं रखता, ऑस्कर जीतने की तमन्ना करता है
र वानखेडे में दोहरा शतक मार के खुश नहीं होता, लॉर्डस में शतक बनाना चाहता
हमारा सितारवादक अपनी धुन से अमेरिका को मंत्रमुग्ध न कर ले, तब तक वह हमारे
ही रहेगा । दाद-परदादा के जमाने में रखी जानेवाली शिखा गँवारपन का प्रतीक बन
गयी । वही शिखा जब पश्चिमी देशों से पोनी टेल बन कर आयी तो हमारे कपिल
बाँधकर घूमने लगे ।

दीजिए सांसदों को विदेश । वे ले जाएँगे हिन्दी को अपने साथ और जब हिन्दी फॉरेन
बनकर रिटर्न होगी तभी शायद उसे यहाँ सम्मान मिल सकेगा ।

..... लाजवाब है ।

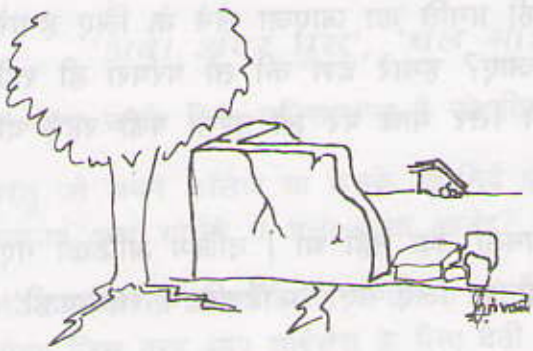
जयेश मेहता - T.E. (Mech.)

क्या हुआ जो आप की खुबसूरती लाजवाब है?
हम भी यहाँ-वहाँ हर गली में बदनाम हैं ।
आपकी बातें, आपका गाना, आपकी वह पायल !
तो क्या हुआ ज़ालिम कलाकार हम भी लाजवाब है ।

करा लो इंतजार आप जितना कराना चाहें,
शृंगार आप जानते हैं तो तड़पाना हमें भी आता है ।
दोस्तों बात मेरी मान लो खुशबु से जी भर लो।
फूलों के साथ-साथ महिमा काँटों की लाजवाब है ।

"अश्रुभरि श्रद्धांजली"

ख्याति राणा - T.E. (Computers)



२६ जानवरी, २००१, नई सदी के पहले गणतंत्र पर्व के दिन यह धरा काँप उठी। इस विनाशकारी भूकंप का प्रकोप अमानवीय है। इस व्यापक भूकंप का वर्णन करना कठिन है।

गाँव के गाँव धरती में समा गए। सब कुछ नष्ट हो गया। चाहे वे बड़े बुजुर्ग हो या युवा हो या नन्हें से हाथों में तिरंगा लिए, परेड़ करते, भारत माँ के गौरव के नारे लगाते भारत का भविष्य, सब इसकी चपेट में आ गए। उन बच्चों ने ज़िंदगी जियी ही कितनी थी, पर अगले ही क्षण मानो जैसे धरती ने सब को अपनेआप में समेट लिया। किसी भी उस वक्त उनकी आँखों में भारत के प्रति कुछ कर दिखाने का जोश रहा होगा। जैसे एक बड़ा धमाका हुआ और भारत माँ के वे नारे हमेशा के लिए एक अनंत मौन में परिवर्तित हो गए। एक विनाशकारी सन्नाटासा छा गया। जिन्होंने यह देखा है वे शायद ही उससे उभर पायेंगे।

भारत के नक्शे से मानो जैसे गुजरात के गाँवों (कच्छ-भूज, रापर, भचाऊ आदि) का नामों-निशान मिट गया है। जैसे भारत-माँ का एक जीवित हिस्सा खंडित हो गया। जैसे परिवार का एक अभिन्न अंग बिखर गया।

इतनी संख्या में लोग इसका भाग बने, वह अंक शायद दुनिया के सामने न आये तोही अच्छा है। कोई हमेशा के लिए चल बसे, तो कोई अपने हाथ-पाँव गंवा बैठे। जो बचे हैं उनके पास अब उनके खुदके अलावा और कुछ नहीं रहा, वे केवल अपने आप के साथ रह गए हैं। हृदय में अपनों से बिछडने का गम होगा पर यह इतने विशाल पैमाने पर हुआ की इस भूकंप ने उनके आँसूओं को भी सुखा दिया है।

गुजरात वासियों ने जो गवाया है वह हम उन्हें कभी लौटा न पायेंगे परंतु आइए, उनके पुनःनिर्माण में हम से जो हो वह अपने अपने ढंग और समर्थता के हिसाब से करने का एक प्रमाणिक प्रयास करें।

इसे ईश्वर का कार्य कहें या मनुष्य की गलतियों की सजा? इसे ईश्वर की इच्छा कहें या पूर्वजन्म के पापों की सजा? इस प्राकृतिक आपदा कहें या इस आधुनिकता के दौर में मनुष्य ने की सीमा उल्लंघन का परिणाम? यह विनाशकार्य यदि हम जैसे निष्ठुर और गैरजिम्मेदार मनुष्य नहीं सह सकते, तो क्या वह अति कोमल हृदय वाला ईश्वर सह सकता है?

संतो का कहना है कि, ईश्वर ने इस सृष्टी का निर्माण किया, वह तो हम देख सकते हैं। परंतु इसके पीछे का कारण हम नही जान पाते, और अगर यह माना जाए की इस दुनिया में पेड़ का एक पत्ता भी किसी न किसी कारणवश ही हिलता है, तो जाहिर है की इस विनाश के पीछे भी कोई न कोई ठोस कारण रहा होगा।

इन तमाम प्रश्नों का उत्तर हम जैसे लोगों को नहीं मिल सकता, परंतु इसका समाधान शायद रामचरित मानस की इसे पंक्ति से हो जाए:

"होइ हि सोइ जो राम रचि राखा। को करि तर्क बढ़ावै साखा ।।"

लोकल यात्रा

आशिष देशपांडे - *T.E. (Electronics)*

हस्य और रोमांच से भरपूर बंबईया-लोकल ट्रेन की यात्रा में आपका स्वागत है । सुविधा के लिए विविध प्रकार की लोकल ट्रेन सेवाएँ उपलब्ध हैं । गठियों के रोगियों र्न लाइन की लोकल ट्रेन फायदेमंद है । जिनकी भीड़ में दब-पिसकर रोगियों की मालिश हो जाती है । बीसवीं सदी में बैलगाडी की रफ़्तार का जायका चखने के हार्बर लाइन की लोकल ट्रेनों में यात्रा करें।

प जिस ट्रेन की प्रतीक्षा कर रहे हैं वह पश्चिम रेलवे की तेज लोकल है और कुछ खास स्टेशनों पर नहीं ठहरेगी। वह इन स्टेशनों के बाहर सिग्नल पर ठहरेगी। यात्रा के रोमांच का मज़ा तो आप बाद में उठायेंगे। अभी तो इस रहस्य का मज़ा लीजिए की ट्रेन आएगी कब? ट्रेन जल्दी आती नही है, जिससे बोर होकर सक्रिय जिंदगी जीने के आदी कुछ बंबईया लोग हाथ-पाँव चलाने लगते हैं जिनमें कभी कुछ पत्थर भी होते हैं।



लीजिए ट्रेन आ रही है। तैयार हो जाइए एक रेकॉर्ड बनाने वाली टीम में शामिल होने के लिए। यह रेकॉर्ड होगा १६६ यात्रियों की क्षमता वाले डिब्बे में ६६१ यात्रियों के समा जाने का। आ गये आप अंदर? बढ़िया! अब का सनसनीखेज दौर शुरु होता है। इस दौरान आपके पैरों मे लगातार खड़े रहने नसनी महसूस होगी। यात्रा के अंतिम चरण में आपको उड़ानसेवा की नि:शुल्क सुविधा ना सिर्फ इतना होगा की स्टेशन आने से पूर्व दरवाजे के समीप भीड में जगह बना ूँद लीजिए। आँखे खोलेंगे तो पाएँगे बिना हाथ-पाँव डुलाए ही आप भीड़ के रेले के हुए प्लेटफार्म पर आ पहुँचे हैं। गिर पड़े? कोई बात नहीं अभ्यास से सीख जाएँगे। त अभ्यास से जडमति होत पहलवान''।

यात्रा आपको पसंद आयी होगी और आप आगे भी उपनगरीय रेलवे को सेवा का रहेंगे। धन्यवाद!

कॉलेज का एक दिन

दीपक पि. महाजन
T.E. (Electrical)

पत्रा है कॉलेज Magazine का,
चर्चा है हमारे daily routine का,
वो पौणे नौ बजे कॉलेज में जाना,
और जाते ही corridor में खड़े हो जाना,
किस्मत से lecture का off हो जाना,
तो सीधे canteen में जाकर गप्पे लगाना,
वो G.T. करके sheets बनाना और
फिर Juniors से teanwork करवाना,
Ragging में पूछना उलटे सीधे सवाल
Oral exams मे रहता है अपना बुरा हाल,
तो कहना सर का की ये लड़का है naughty,
क्या बतायें मर अपना Target तो है Forty,
Result declare होने पर करना smile
क्योंकी अब नही पलटनी कोई पुरानी File
कहना शान से dear, हम है all clear,
ये नहीं है कोई Fiction,
गलती से अपनी भी आइ है distinction,
लग रहा है जैसे हुआ है चमत्कार;
बस किसी तरह लग गया इस semester
में भी अपना बेडा पार.

दिल की आवाज

सुमित अग्रवाल
(S.E.Mech.)



यह तक्कलूफ क्यों किया आपने,
एक बार कहकर तो देखा होता,
जान भी बिछा देते आपके कदमों में
एक बार अपना तो समझा होता ॥

एक डर-सा रहता है दिल में,
कि तुम कभी खफ़ा न हो जाओ,
एक खौफ-सा बना रहता है दिल में
कि तुम कभी हमसे जुदा न हो जाओ

वो आए हमारी जिंदगी में,
कुछ पलों की खुशियाँ बनके,
वो जा रहे हैं हमारी जिंदगी से,
सालों साल की यादें बनके ॥

राख बनके रह जाती है,
जब कुछ जल जाता है,
यादें बनके रह जाती है,
जब कोई चला जाता है ।

मेरी आँखो में डूबकर देखो,
तुम्हारी तस्वीर नजर आएगी
मेरे दिल में उतरकर देखो,
तुम्हारा प्यार नजर आएगा ॥

जवान, जय किसान और जय विज्ञान''

रवि तोदी - *T.E. (Electronics)*



'जय जवान, जय किसान' प्रेरणादायक नारा हमारे पूज्य दिवंगत नेता श्री लाल बहादुर शास्त्रीजी ने देश को दिया था। इस नारे में 'जय विज्ञान' का जयघोष हमारे वर्तमान प्रधान मंत्री श्री. अटल बिहारी वाजपेयीजी का दिया हुआ है।

हमारे राष्ट्र को कई बार लड़ाई में उलझ जाना पड़ा, जिसकी जिम्मेदारी हम पर कतई नहीं थी। वैसे तो लड़ाइयाँ हमेशा ही घातक हुआ करती हैं, पर कभी कभी उसके परिणाम अच्छे भी निकल आते हैं। इन लड़ाइयों में हमारी विजय हुई और हमारे देश के बहादुर जवानों ने शत्रुओं से अपना लोहा मनवाया।

लड़ाइयों में हमारे धर्म निरपेक्षता और उदरता के वे आदर्श पूरे होकर एक बार फिर से ारी राष्ट्रीय चेतना के आधार स्तंभ हैं। जिस एकता और साहस से हमारी सेनाओं ने दुश्मन वह हम सभी के लिए एक मिसाल होनी चाहिए। हमे विश्वास है कि अपनी मातृभूमि की रखने के लिए हमारी सेनायें सशक्त और मजबूत हैं। हमारे जवानों ने जो जमीन और वीरता दिखाई, जो बलिदान दिये, उनकी कहानियाँ हमारे इतिहास में स्वर्ण अक्षरों से लिखी रक्षा करते हुए जो हँसते हँसते शहीद हो गये, उनकी भी एक लम्बी सूची है। समूचा राष्ट्र शहीदों को हमेशा याद करता रहेगा।

दृढ राष्ट्र बनने के लिए भारत वर्ष को आत्मनिर्भर बनना पड़ेगा। खाद्यान्न के उत्पादन में आत्म ही महत्त्वपूर्ण है जितना कि कठिनता से प्राप्त अपनी स्वतंत्रता की रक्षार्थ अजेय रक्षा प्रणाली। र्ति के लिए केवल कृषि ही नहीं बल्कि उद्योग, विद्युतशक्ति, सिंचाई, परिवहन तथा प्रशासनिक गई है ताकि किसानों के लिए आवश्यक साधनों और सामान की बहुत शीघ्र व्यवस्था हो सके।

भारत ने संपूर्ण विश्व में अपनी एक नई पहचान बनाई है। और यह नई पहचान है एक ऐसे आज सूचना प्रौद्योगिकी के क्षेत्र में विश्व में सबसे आगे है। हमारे भारतीय वैज्ञानिकोंने परमाणु को एक बार फिर दिखा दिया कि भारत को कमजोर व असहाय समझने वाले देश सावधान उनकी हर गुस्ताख़ी का मुँह तोड़ जवाब दिया जाएगा।

आओ फिर से दिया जलाएँ

हम पड़ाव को समझे मंजिल,
लक्ष्य हुआ आँखो से ओझल।
वर्तमान के मोहजाल में,
आनेवाला कल न भुलाएँ।
आओ फिर से दिया जलाएँ

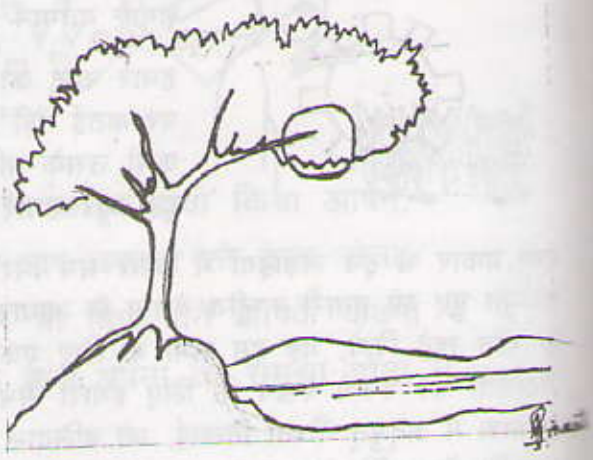
आहुति बाकी, यज्ञ अधूरा,
अपनों के विघ्नों ने घेरा,
अंतिम जय का वज्र बनाने।
नव दधीचि हड्डियाँ गलाएँ।
आओ फिर से दिया जलाएँ

की इन पक्तियों के साथ मै अपनी कलम को यही विश्राम देता हूँ।

गर

सुनैना धनजल
T.E. (Computers)

गर हो ख्वाईशें पूरी,
गर न रहे तमन्नाएँ अधूरी ।
गर रह सकें फैसले अटल,
गर सफलता के लिए दिल रह सके बिना मचल ।
गर मंजिल हो न कठिन,
गर हर एक सीने में हो दिल ।
गर दुख न हो खुशी की परछाई,
गर हृदय में सुख की इच्छा न समाए ।
गर जिन्दगी न होती इतनी लंबी,
गर न भरते हम साँसे ठंडी ।
गर धन का मूल्य होता न इतना ज्यादा,
गर इन्सानियत का होता कोई कायदा ।
गर हो न लोग ईर्ष्या से भरे,
गर इन्सान खुदा से डरे,
तो कहें हमने जी ली है जिन्दगी ।



गझल

सुगंधा मेस्त्री
T.E. (Electronics)

तनहाई जब मिलती है तब वो तनहा नहीं होती
वो कौन है जिसकी वो हमराह नहीं होती !
एक शक्ल उभर आती है यादों के आईने में
धुंधली-धुंधली रहती है पर आम नहीं होती ।
हर मोड पे रुकते हैं कदम मोडते हैं क्यूं हम
कब आपसे मिलने की हमें चाह नहीं होती ।
सुनते हैं उनका हाल कुछ ठीक नहीं कलसे
जाँ अपनी गई पर उन्हें हासिल नहीं होती ।
इक लम्हा भी आजकल मेरे बस में नही है
दिल बस में जो होता तो ये मुश्किल नहीं होती ।
जिक्र छिड़ा आपका और बन गई महफिल
सरे बज्म हुए कत्ल पर आह नहीं होती ।

जीवन साथी... प्यार किये जा!

सौरभ गुप्ता - *T.E. (Electrical)*

कभी ना कभी, किसी ना किसी के प्यार में दीवाने हो जाते हैं। जब हम जवान एक नहीं अनेक लड़कियों से एक ही समय पर प्यार करने लगते है। यह वो उम्र पल ॲन्ड ऐरर' का फंडा हर जगह लगाते हैं।

हमारे पास जीवन साथी तो है और वह प्यार भी करता है, परंतु किससे, हमसे या ऐश्वर्या राय से। भैया, बड़ी ही सरल बात यदि आपका पड़ोसी या मित्र ह्रतिक तो समझिये की आपका पत्ता कट गया। ठीक उसी तरह पतिदेव को आप अपने ही सकती। हर खूबसूरत महिला को देखकर उसका दिल यही गायेगा ''मैं तो हूँ मैं तो हूँ तेरा दिवाना''।

लाक लेना मानो आलू प्याज लेने जैसा हो गया है। आलू खरीदते समय भी आप हैं; तलाक लेते समय भी आप जायदादा का भाव-तोल करते हैं। सारी बात का है कि हमारी सभ्यता और भारतीय संस्कृति भंग हो गयी है।

महिला ने सिर्फ इस बात पर तलाक ले लिया कि उसका पति ऑफिस जाते समय ाता लेकर जाता था। पति-पत्नि दोनों इन्फोसिस में काम करते हैं। जब पढे-लिखे हाल है तो बाकी जनता का क्या होगा?

ात और दिलचस्प है! ''मडोना'' का नाम तो हमने सुना ही है। इनके बारे में क्या त टेलर', इनके तो आठ जीवनसाथी रह चुके है। हाल ही मे टोम निकोल किडमन हे हैं ''मुझे मेरी बीवी से बचाओ।'' बोरिस बेकर एक भारतीय मूल की महिला के हुए हैं।

जों के छात्रों ने तो इस वाक्य का नया अर्थ दिया है - ''ऐ मेरे बॉय फ्रेन्ड मुझपे ।''

ड़'' आजकल बहुत चर्चित हो गया है। बहुराष्ट्रीय कंपनियाँ यह कहती हैं कि-अपने कार्ड दिजिए। याने कि हर साल एक ही लड़की को कार्ड दूँ? भैया... क्यूँ मुझे बेमौत हर एक लड़के का किसी लडकी को देखने का नज़रिया ही बदल गया है।

यही तात्पर्य निकलता है कि यदि आप किसी को कहें ''यार अपने जीवन साथी से चौकियेगा मत यदि उसका जवाब रहे ''अपने जीवन साथी से तो कर लिया अब साथी से करना चाहता हूँ।''

अतः आप यही कहिये

मेरे जीवन साथी..... मुझे पया किये जा और सिर्फ मुझे प्यार किये जा''

आपका सौभाग्य होगा यदि वो आपसे प्यार करे।

विद्रोह

मयुर उदेरानी - T.E. (Computers)

यों नहीं बदलेगी हवा,
ऐसे नहीं निकलेगा डर।

एकत्रित करो उस बगावत को,
आज केसरीया झंडा फहरेगा।

आज फिर आये हैं वो दिन,
जब सुभाष, पटेल को याद करेंगे।

युद्ध का संगीत फिर गरजेगा,
ाज तांडव नृत्य होगा।

जवान मृत्यु से रचायेंगे शादी,
ज़मीन पर बिखरेगा लाल गुलाल।

आज गंगा भी योगदान देगी,
ब्रह्मपुत्र फिर लाल होगी।

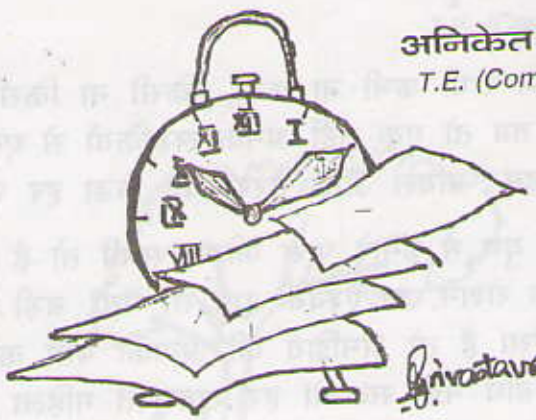
कहीं चूड़ियाँ टूटेंगी,
कहीं सिंदूर उजडेंगे।

कहीं वंशवृक्ष रुक जायेगा,
कहीं जड़ें कट जायेगी।

मगर कब इस महाकाली रात्रि, का अंत होगा,
कब विद्रोह की बजेगी शहनाई।

समय

अनिकेत दप्त
T.E. (Computers



कैसा है, कितना अद्‌भुत् है समय?
चलता है, चलते ही रहता है समय,
कभी नहीं ये थकता है समय,
ना ही पीछे मुडकर देखता है समय,
न किसी के लिये रुकता है समय,
ऐसा है, इतना अद्‌भुत् है समय ।

न इनसान, न शैतान, न भगवान,
तो फिर कौन है समय ?
कभी किसी एक का नहीं होकर रहता है स
न किसी का इसपर जोर चलता ये समय,
राजा नवाबों का भी आता जाता है समय
कभी अपना तो कभी पराया लगता है स
ऐसा है, इतना अद्‌भुत् है समय ।

मैं आगे और भी लिख सकता,
पर अब मेरा नहीं रहा,
ऐसा लगता है समय!

भूकंप

मंदार पाटील
T.E. (Electrical)



गहराइयों में हुई गडगडाहट
क्शा ही बदल डाला
थी हरी, उसे
मटमैली कर डाला,
थे, खुशी के गाँव
के पहाड़ हो गए,
मंझीलें ढ़हकर मलबे हो गए,
हाल हमारे भाई बहनों का,
और लाचारी का
य आगे बढ़ भेज रहे दान,
ी है उन तक? नहीं है किसी का ध्यान
आसमान में उड़ते उड़ते ही
ट पास कर दिया
हमदर्दी जताने भी
दिए मुस्कराते हुए,
ूलों के हार पहने हुए,
ीत के लिए होते हैं,
सी जीत मनाई जा रही है?

सारांश

ख्याती राणा
T.E. (Computers)

वो एक और ज़माना था,
जब हमें भी था सहारा किसीका ।
ज़िंदगी जीने की ख्वाइश जागी थी,
नज़रें टिकी थी एक मकसद पर ।
पर पल ही में सब बिखर गया,
जैसे सागर लहरों में बँट गया ।
क्यों न जाना तकदीर का फसाना,
आँखों में सपने सजाने से पहले ।
या खुदा ने ही बदल दी तकदीर,
हमें खुशियाँ देने से पहले ।
रोते रहेंगे अब हम जिंदगी भर,
दुख का दामन सदा सीने, से लगा कर ।
सुकून के सागर में रहकर भी हम वंचित रह गए,
रहेगा अफसोस इसका हमें जिंदगी भर ।
फिर किसी कोने में ये एहसास हुआ-
"कि खुदा नहीं बदल सकता मुकद्दर
एक बार लिखने के बाद -
ये तो हम ही इसके काबिल न थे ।।"



मेरी पसंद

प्रियांका शर्मा - S.E. (I.T.)



मेरी पसंद जाती है, कुछ यों,
ज़ख्म कुरेद लाती है कुछ ज्यों,
दवा दारु की जहाँ होती नहीं जरुरत
दिल का मरहम भी होता है बडा ही बेगैरत ।
पसंद ज़ाहिर करने के लिए मैं क्या रास्ता इख्तियार करुँ,
तुमने मारा पीछे से, क्या मैं भी छुपकर वार करुँ,
नहीं मैं तुम्हारी तरह नीच नहीं,
तितली रानी हूँ मैं कोई लीच नहीं ।
मेरा हुस्न कायनात में कयामत न सही,
मेरी गैरहाजरी दिल को चुभती ज़रुर है,
मेरे न आने से तुझको भी होता है दर्द,
पर बयान करने में तू बड़ा ही मगरुर है ।
मैंने तुझे पसंद किया, यही मेरी पसंद का आईना है
भूल चूक होती है इन्सान से, यही तो हाल
फिल्हाल शराफत का पैमाना है ।



संकल्प

प्रमोद म्हसकर - M.E. (Struct.)

नये साल मे शायद कुछ नये दिल जुडेंगे ।
पुरानीही शाखाओंपे नये पत्ते कुछ खिलेंगे ।।
ताक में हैं हम सदियोंसे उस एक ही दिन के ।
जब चांद होगा हाथों में हमारे और तारे उन पलकों पे ।।
किसी से दिल फिर हमारा भी जुड़ेगा ।
सुना था जो ''कुछ-कुछ'' हम से भी होगा ।।
बादल फिर भर आयेंगे हमारे भी दिल में ।
लहरें फिर उठेंगीं किसी मद्होश निगाहों में ।।
नये साल में ऐसा ज़रुर कुछ होना है ।
पाकर उसे अब तो इस बार फिर ना खोना है ।।

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