

REVERIE

2004-05

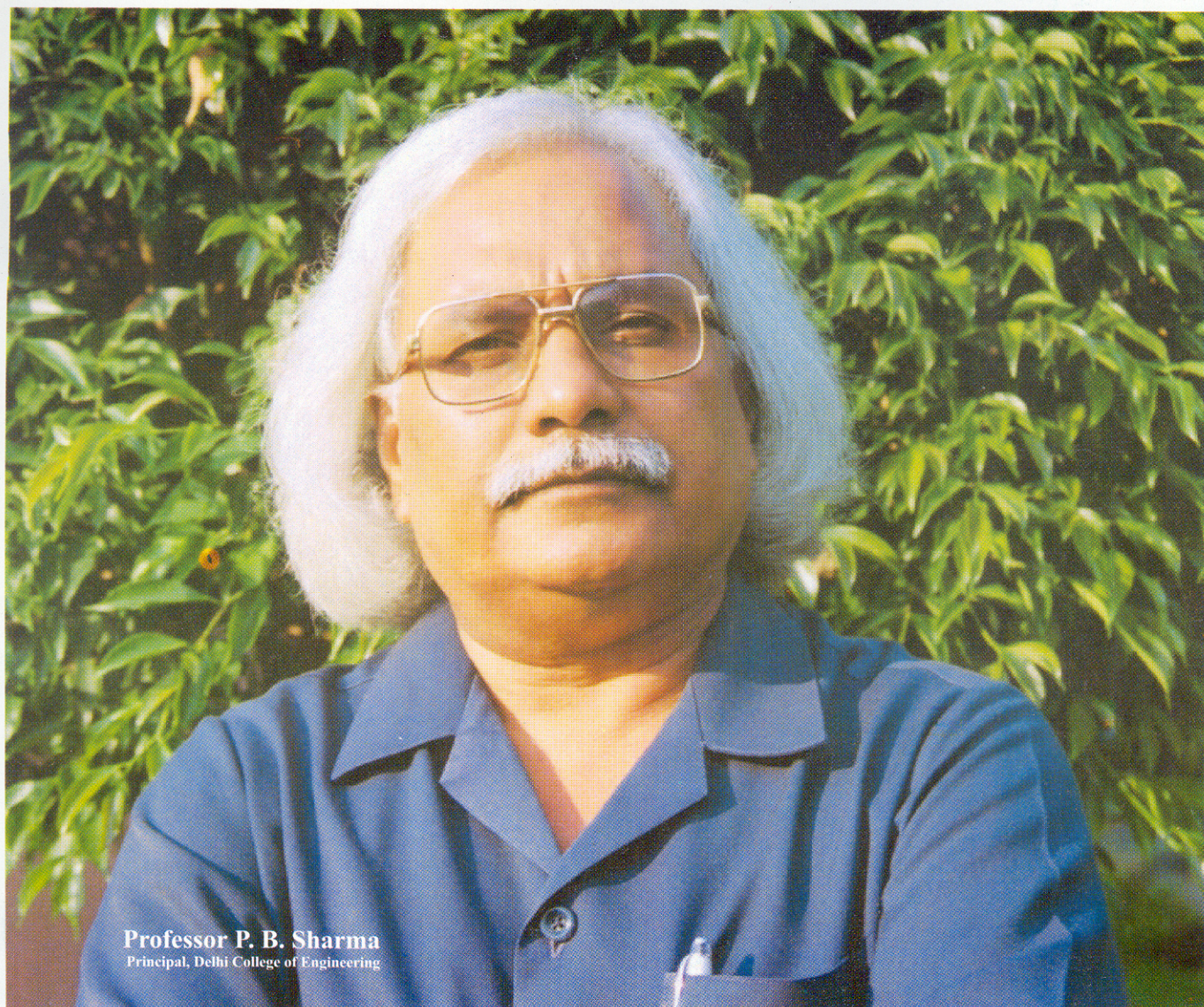
ANNUAL MAGAZINE
DELHI COLLEGE OF ENGINEERING

Back with a Bang
DCE INTO TOP 10!





“ Do not go where the path may lead,
go where there is no path and leave a trail. ”



Professor P. B. Sharma
Principal, Delhi College of Engineering

It is not easy to convey the character of a college that has been built over the decades, nor is it easy to appreciate DCE's vitality from a distance. It is with the purpose of bringing to life the beautiful campus, the truly well engineered buildings and of course the sense of spirit that makes the college unique, that the college magazine Reverie has tried to bring out. DCE is an engineering school that has carved its own niche – ranked in the top ten engineering schools of the country. The truly eclectic student community of this college has to its credit Formula Car and ATV's. The college has been the front-runner in developing Biodiesel fuel for a greener environment—which we feel is our moral commitment to our society.

DCE inspires in its students a sense of innovation; a sense of thinking big and most importantly thinking outside the box! Apart from a firm academic grounding, we have a long tradition of intense involvements with extracurricular activities: arts and athletics, drama and music, religion and spirituality. DCE students learn habits that encourage them to become responsible citizens of the nation, and the world.

I take this opportunity to congratulate the entire editorial team Reverie for their efforts to bring to life the college in all its myriad colors, as we know it...

I sincerely hope this magazine is helpful in capturing and conveying something of DCE's truly distinctive identity and its character!

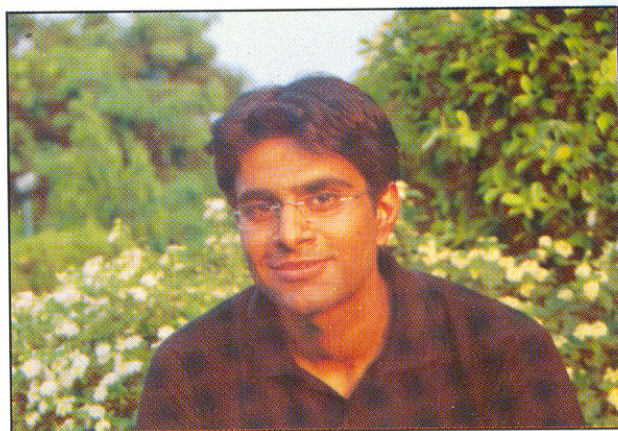


As a forum for presenting student's views and creative efforts REVERIE this year reflects the zealous endeavour of our students and portrays a gamut of activities and achievements of the college. Under the dynamic leadership of our principal, Prof. P.B. Sharma, college has occupied a position among the top ten engineering colleges of our country. His sapient efforts are leading the college to reach greater heights. Team REVERIE is specially thankful to sir for his kind support and encouragement.

While editing a student's magazine is something one normally looks forward to with pleasure, it was not undiluted joy this time. It is a matter of regret and disappointment that some members of students editorial team did not work properly. I hope next year students will be sincere enough to work hard because success is not adventitious but the result of unfeigned toil.

Editorial

It is finally here—enchancing, vivacious and reflective, perhaps in its best form ever, so to say. Arguably, though it may not be appropriate to gesticulate that this prolific piece of creativity owes itself to us and we would out rightly despise any mortal who would dare to call this ‘serendipity at its awful best’. We confess at this juncture that we stumbled into an inheritance, one that we have carried on, (thus was born the name ‘*Reverie*_*the*



Arnav Sharma - Chief Editor

continuum’), and one that we most deliciously and wholly savored and cherished. The inheritance was admirable in its potency to serve as a muse and a driving force that perpetuated us to the limits of excellence.

The work at hand was to rectify the shortcomings of the previous issue and come up with some more changes in the layout, design and presentation. No prizes for guessing that the amazing riots of color are indeed a celebration of life in the hallowed portals of this institute. The news of DCE bouncing back into the Top Ten was received with such gusto and excitement that it has been inexplicably hard to capture the mood of the college on paper. Though the over all style of the magazine is loosely poetic, the editorial team thought it best to throw in a dash of magical realism and a pinch of humor, a streak of insouciant charm and we mixed them all up and voila, was born the magnificent concoction, whose glitz embodied a humility, whose realism oozed enigma and the mysticism had an aura of simplicity!

A dream is a train of thoughts and fantasies during sleep. Most of these dreams are perhaps unattainable and can never be realized in actual. But, this is indeed the beauty of dreaming. Our dreams are a manifestation of the hidden desires and ambitions trapped within us. What could be better than unleashing these hidden conundrums from within you and leading them into the real world. This very train of thoughts shall then metamorphose into reality.

This is your magazine, your medium to voice your views and opinions, so go ahead and devour it and get back to us with your feedback and suggestions. We would be most happy to put it up there.

And finally we have a piece of advice: ‘Keep Dreaming’ because dreams are the solitary unifying agents that bind us all together in spite of the underlying kaleidoscopic plurality.

That’s *Reverie*_*the continuum*!

Give us your hand and we shall guide you into the magical world of dreams...

Many Thanks!
Team *Reverie*.

The college at a glance

10

Number of undergraduate programs

11

Number of Post Graduate Programs

8

Number of undergraduate residences established

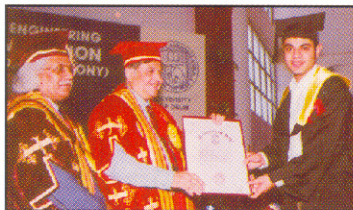


64

The years DCE has been

25

Number of Ph.D. Fellowships



No. 1 in Asia

Department of Mechanical Engineering

Top 10

In the India Today's Best Engineering Schools Survey



Amongst Most Preferred

Tech Schools for recruitment

Biodiesel Research Programme in full swing

First Asian School

to send a team in Student Formula racing

CORE

Declared Center of Relevance and excellence by Govt.

On Coming to DCE...

“Knowing what one is passionate about is not always self-evident. Good mentoring draws from the student a spark of self-recognition. That spark has ignited in me a fire, which propels me to the limits of excellence. That’s DCE.”

— Anuj Gupta, Class of 2004

“I am here because it has afforded me the opportunity to see the world beyond my myopic visions. The DCE experience has given me a wider horizon to explore all the possibilities, which until now I had not even thought about.”

— Sameer Sinha, Class of 2005

“ After coming to DCE I have scraped the surface of my existence in the world. I have discovered that the whole college community is like a huge jigsaw puzzle and I am a piece of that puzzle and I now understand—I fit here! “

— Mansi Taneja, Class of 2007

“ You get up in the morning here and the sense of the future is palpable. This kind of an edge-pushing environment simply does not exist in other places.”

— Rohan Verma, Class of 2006

“One of the biggest testaments to the greatness of this place is the fact that we are constantly learning. Intellectual learning, recreational learning, or maybe some hybrid of the two—one thing is for sure; every DCEite has a personal vitality that drives them. This vitality makes sure that the minds are always at work or... at play, should I say?”

— Samarth Sahani, Class of 2006

“From the Pentium chip to formula cars; from Bio-diesel to the All-terrain vehicle—each bears the mark of a DCEite. It is very motivating, indeed.”

— Malika Arora, Class of 2008

“I think I loved coming to DCE. Well, I worked hard for it! This question about my feelings on coming here is one that generates a thought process that is quite vividly unprecedented. I guess the one word which strikes my mind is ‘spectacular’.”

— Varun Malhotra, Class of 2007

“The faculty here encourages us to think big! It is almost like risking your innings, in a game of cricket, for a six rather than playing it safe with singles. Because when one is at the helm of an idea whose impact on the world can be profound, you simply cannot help!”

— Sagar Malik, Class of 2005

“ DCE has afforded me the liberty and freedom that I had always longed for.
Yet, it has taught me to enjoy that freedom responsibly.”

— Parth Saxena, Class of 2006

“ The campus is simply out of this world—just the place for me to immerse myself in learning. The teachers here are extremely supportive of the student’s learning ambitions.”

— Nitin Saigal, Class of 2006

“ DCE has fine-tuned my personality to concentrate on academics and yet manage recreational activities alongside. This place has surely compelled me to make a profound and lasting contribution.”

— Priya Bhatia, Class of 2006

“ The freedom to excel! What makes DCE different are not only the high caliber of students, but also the informality. This allows for a greater level of honesty and intensity in student discussions.

— Ankit Behl, Class of 2005



**"ON THE VIEWLESS
WINGS OF POESY..."**

I thought of telling you then...

I could imagine your eyes bright and lively
Excitement coursing through the pools of blue sea
Your hands moving animatedly
Gesturing and telling in ways your mere words
Could not extend
I listened patiently
Fascinated...
Not with what you had to say, but in the
Resonant sound in which you said it.
Inside the aching was secret because I wanted
To have been the one to bring such life into you.
... I thought of telling you then...
But I didn't have the strength to.

I could imagine your eyes hooded and downcast
Anger fusing to cause electricity in your storming skies
Your hands clinched in the fists of rage.
Tight and rigid on your lap
I listened cautiously
Furious
Not at you and the way you reacted but with
The way he made your voice tremble.
Inside my heart burnt because I wanted to have
Been the one to make you feel such intensity.
... I thought of telling you then...
But I didn't have the will to.

I could imagine your eyes coif and sly
Passion dilating you pupils.
Your hands open and slick the sweat
Rubbing over your jeans to dry them
I listened painfully
Jealous
Not because you felt bliss and joy but
Because you felt it with him
Inside my heart broke because I wanted to be
The one to bring you such a fervent pitch of desire
... I thought of telling you then...
But I didn't have the courage to.

I could imagine your eyes sad and pained
Unshed tears creating a wall of anguish
Your hands trembling as a child's
Shaking as they cradled your head
I listened silently
Miserable.
Not because of you but because he had
Caused you to feel that hurt.
Inside my heart was torn because I felt sorry
For you and him even though I secretly wanted



To have been the one whose name you sobbed.

... I thought of telling you then...

But I didn't have the heart to.

I could imagine your eyes distant and weary

Your eyelids shutting out the world.

Your hands limp like rags.

Hanging lifelessly on each side of your bode.

I listened intently.

Desperate

Not because I was dunking in your every word

But I was straining to hear you speak a word at all.

Inside my heart was cold because I couldn't

Comfort you when you needed me the most.

I told you then...

But only because I couldn't find any more reasons not to.

I could imagine your eyes wide and startled

Your eyes looking away

Your hands fidgeting restlessly

Nervously running through your hair

I listened abjectly

Depressed

Not because you didn't care but

Because you cared too much to let me dream

Inside my heart shattered because

I thought my world had ended

..... I thought of dying then...

But I couldn't find the words to tell you

I could imagine your eyes sympathetic and pleading

Your brows furrowed out of concern

Your hand stretched out in front of your body

Reaching out to me

I didn't listen then

Hollow

I walked away not because you hurt me

But because I was hurting myself looking at you

Inside my heart cried imagining you.

All I ever wanted war for

You to imagine me!

Rahul Sangal
Class of 2007

Curtains

He spends eternity in a lugubrious mansion
Luminaries are banished from this kingdom
And darkness pervades every chamber
He ensconces in this nigrescent obscurity

Rust has conquered the frontline here
The bearers of familiarity were never met
Now people only sympathize from after
And their whispers die soon enough

All the windows in this funereal hideaway
Are draped with the thickest of curtains
So the beauty outside does not permeate
For he was once a prey to it's silver glimmer

Two eyes strain to see beyond the curtains
A single fracture in the dark night is salient
The eyes focus on the enigmatic figure
And a scream is heard from miles away

Totality

As the hollow notes floated by
I waited for a single moment
When I could witness the rebirth
Of my disillusioned soul

Inch by inch the fire will be cloaked
Wounds of the past will begin to heal
Every stinging shard left behind
I'll surrender to the flow of time

And I don't fear the blinding darkness
That will hail the transformation
For that is the moment when I'll find
Within me, the strength to walk again

So I sit here watching the past tick by
Waiting for a void to eclipse my pain
And give me another beginning
I wait for totality

The Last Autumn

The world outside my window does not agree with my memories
For now time seems to have slowed down to my heart's pace
The cycloptean iris traverses the blue desert without its haste
As my green neighbors perform a slow waltz to the wind's song

Quite like my canescent hair, my neighbors are losing their shade
From the once prosperous green to a descending yellow
And soon these leaves will start to precipitate like winter-snow
Then I will count them instead of my days that still remain

No leaves now cling to the giant and few days are left for me
The land is covered by the mellow fire of static yellow and orange
Every breeze that blows by shuffles the dead into violent flames
The time will come when a gust will blow them all away
And I'll float away with them too

Kapil Kumar Singh
ESO/2K4



Rainbow

Their fascinating colors
The magic in their being
Their promises of hope.
Their promises of spring.

Their interwoven fabric
Of multicolored skeins
Their ephemeral presence
As if a pleasant dream

Lurking behind the spray
Of fountains, streams and seas
Captured among the clouds.
Bubbles and dew on leaves

Make your lives a rainbow
Out of the colors of life
Oodles of fun and laughter
With excitement fro spice.

Dreams, faith, hope and wonder
Lone and fancy's flight
Sorrow, trials, suffering
Responsibilities and strife

Beauty, joy, pride and honor
Success – its dizzying heights
Failures, duties, problems
Decisions: wrong and right

Honesty, charity, sympathy
Ambition and foresight
Hurt, pain, disease and hunger
Betrayals and jealousies blind

Justice, romance, integrity
Adventures, life's delights
Rancor, guilt, misgivings
Progress – its heady flight

All a part of living
All the hue of life
The colors of life and palette
Making rainbows of our life.

Preetam Mohan Singh
Class of 2006

I MEAN

An affair to remember - MMS, I mean
A tryst with destiny - solitude, I mean
An identity gone hay wire - Femininity, I mean
A sneak peek into the future - Competition, I mean
A history revisited - Revolution, I mean
A drop in the ocean - Love, I mean
A solemn oath - Crime, I mean
A Lok in the heart - Godhra, I mean
A potential Tsunami - Bihar, I mean
A hoodhun of gentlemen - Government, I mean
A blind proposal - Trust, I mean
A dangerous illusion - Youth, I mean
A life too many - Today, I mean

Ravi Rana
Class of 2006



I want to be in love

I want to be in love!!
I want to be in love!!

Love – an inspiration
Love – a dedication
Let the fruits of love fall
And lets collect them all

I want to be in love!!
I want to be in love!!

Whom can I ask for love?
Who would tell me what is love?
I love the trees; I love the sky
But I see so many stars without a mark

I want to be in love!!
I want to be in love!!

I saw in my friend's diary
Love is about three things –
Sharing, Caring, Sacrificing
But it seemed unsatisfying

I want to be in love!!
I want to be in love!!

I see the men in uniform
Ambling straight, adhering to the norms
I ask them what are they up to?
One replied there are nations to fight and they number in two

Reason being their love for their country
They held talks – peace in the valley
Suddenly time replied-
They are meant only for news commentary

Is this love, though it smells of sacrifice?
With blood flowing through the crevice
Was it to be cherished?
They smile and perished

My query is still unanswered
If this is love –
I hate love

I want to be in love!!
I want to be in love!!



Lavender Gems

Perched a top the crooked branches,
Of a protective tree,
My lavender gems swayed lightly in the breeze,
Joyous and carefree.

I chanced upon the priceless treasure,
One fine morning in January,
Golden daffodils wouldn't have brought enough pleasure,
As these gems brought to me.

I saw them on my way home,
Smiling benevolently from high boughs,
On miserable souls passing underneath,
Enwrapped in their worldly woes.

The most tiresome of days,
Couldn't diminish the shine in my eyes,
When I saw those lavender pearls,
Dancing jubilantly under clear blue skies.

My happiness didn't last long,
My gems were snatched away,
Walls were built around them,
To keep prying eyes at bay.

As I lie on my couch now,
And reminisce those days,
I cannot but wonder,
About nature and her strange ways.

Preeti Bhargava
Class of 2007

This Life Has Been A Journey

This life has been a journey
I have been walking all these years
So many moments to recall
From where do I begin?

Lets talk of love
That I am here to share
With every beat of my heart
Love is what I spread

Walking through the deserts
Thorn is what I loved
For it too pierced me wanting to be touched
Why should I be Incensed
Because that's the way thorn loves

This life has been a journey
I have been walking all these years
So many moments to recall
From where do I begin?
What is love?
If you ask me

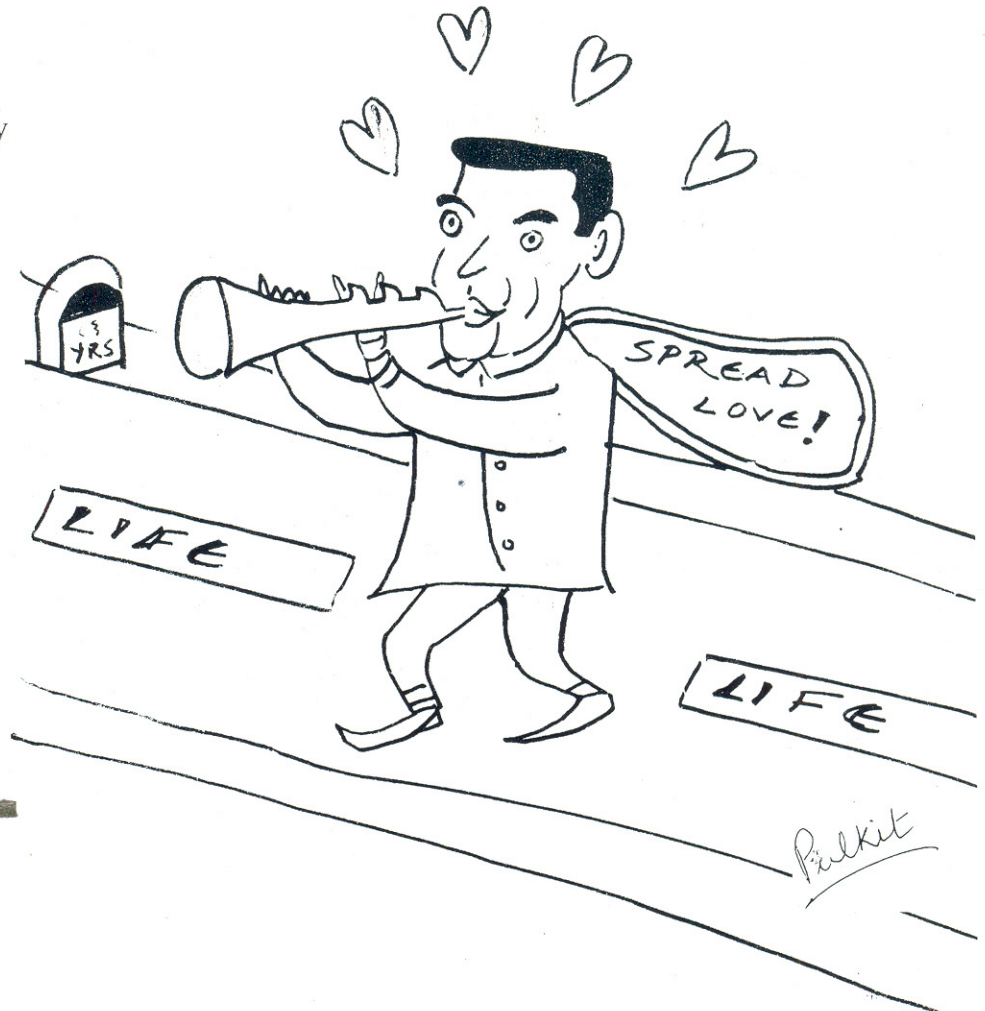
I can only say
Give food to the hungry
And u have made a lovely day
Show way to the blind
Love you will find
In his eyes
Love is there to fill
When hatred
Has drilled
Those holes and still
You are keen to forget
What all there had been?

This life has been a journey
I have been walking all these years
So many moments to recall
From where do I begin?

Lets talk of love
That I am here to share
With every beat of my heart
Love is what I spread

Love is the cure to all the
Aching hearts
Talking of u and me
Love is what we have
How far you may be
But never feels apart

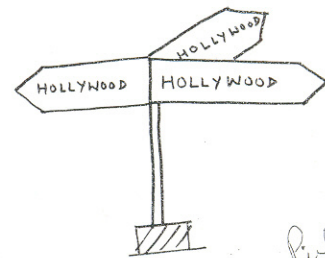
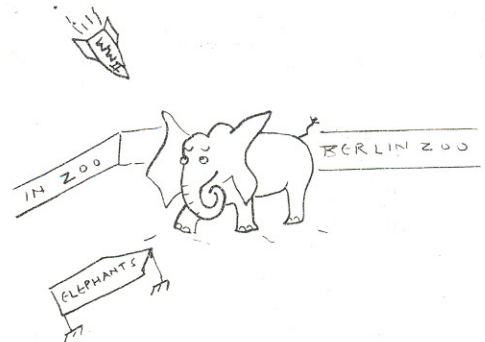
If these lines make a difference
Then spread love all around
That's the way we get closer
That's how I can be found...



FACT FILE

30 Things I Bet You Didn't Know!!!!...

1. A rat can last longer without water than a camel.
2. Your stomach has to produce a new layer of mucus every two weeks or it will digest itself.
3. The dot over the letter "i" is called a tittle.
4. A raisin dropped in a glass of fresh champagne will bounce up and down continuously from the bottom of the glass to the top. **SHOULD BE A WONDERFUL SIGHT !!**
5. A female ferret will die if it goes into heat and cannot find a mate.
6. A duck's quack doesn't echo. No one knows why.
7. A 2 X 4 is really 1-1/2 by 3-1/2.
8. During the chariot scene in "Ben Hur", a small red car can be seen in the distance.
9. On average, 12 newborns will be given to the wrong parents daily!
10. Donald Duck comics were banned from Finland because he doesn't wear pants.
11. Because metal was scarce, the Oscars given out during World War II were made of wood.
12. The number of possible ways of playing the first four moves per side in a game of chess is 318,979,564,000.
13. There are no words in the dictionary that rhyme with orange, purple and silver.
14. The name Wendy was made up for the book "Peter Pan". There was never a recorded Wendy before.
15. The first ever bomb dropped by the Allies on Berlin in World War II killed the only elephant in the Berlin Zoo.
16. If one places a tiny amount of liquor on a scorpion, it will instantly go mad and sting itself to death.
17. Bruce Lee was so fast that they actually had to s-l-o-w the film down so you could see his moves. That's the opposite of the normal...today.
18. The first CD pressed in the US was Bruce Springsteen's "Born in the USA".
19. The original name for butterfly was flutterby.
20. The phrase "rule of thumb" is derived from an old English law which stated that you couldn't beat your wife with anything wider than your thumb.
21. The first product Motorola started to develop was a record player for automobiles. At that time, the most known player on the market was Victrola, so they called themselves Motorola.
22. Roses may be red, but violets are indeed violet.
23. By raising your legs slowly and laying on your back, you cannot sink into quicksand.
24. Celery has negative calories. It takes more calories to eat a piece of celery than the celery has in it to begin with.
25. Charlie Chaplin once won third prize in a Charlie Chaplin look-alike contest.
26. Chewing gum while peeling onions will keep you from crying.
27. Sherlock Holmes NEVER said "Elementary, my dear Watson". This phrase was credited to him in the cartoons based on the book.
28. An old law in Bellingham, Washington, made it illegal for a woman to take more than 3 steps backwards while dancing.
29. The glue on Israeli postage is certified kosher.
30. The Guinness Book of Records holds the record for being the book most often stolen from Public Libraries.



Preeti Bhargava
II Sem, IT
2K3/IT/941

INDIA REDISCOVERED

- Q. Who is the Co-founder of Sun Microsystems (The company which is sweeping the internet with its brainchild Java)
- A. Vinod Khosla
- Q. Who is the Creator of Pentium Chip (Needs no introduction, 90% of the today's computers run on it)
- A. Vinod Dham
- Q. Who is the third richest person in the world
- A. According to the latest report on Fortune Magazine, it is Aziz Premji, CEO, Wipro. The Sultan of Brunei is at 6th position now.
- Q. Who is the current president of AT & T Bell Labs (AT & T Bell Labs is the creator of C, C++, Unix to name a few)
- A. Arun Netravalli
- Q. Who is the founder and creator of Hotmail (Hotmail is world's No. 1 web based email program)
- A. Sabeer Bhatia
- Q. Who is the GM of Hewlett Packard
- A. Rajiv Gupta
- Q. Who is the Testing Director of Windows 2000
- A. Sanjay Tejwrika
- Q. The Chief Executives of Citi Bank, Mckensey, Stanchart
- A. Victor Menezes, Rajat Gupta, Rana Talwar
- Q. Who are CEOs of the following well known companies Please find the answer yourself.
- * AppNet America Online (The Largest ISP in the World) WebMethods
 - * Lucent Technologies (Pioneer in Fiber Optics)
 - * Proxicom
 - * Network Solutions (The sole web domain assigner)
 - * General Dynamics Corporation
 - * Lazard Freres
 - * Litton PRC
 - * Columbia Capital
 - * Primus Communications
 - * Discovery Communications
 - * Bell Atlantic
 - * Cable & Wireless
 - * The Motley Fool
 - * Hughes Network Systems
 - * Cybercash
 - * MCT Worldcom
 - * PSINet
 - * Motorola
 - * Micro Strategy
 - * Equalfooting.com
 - * Teligent, Inc.
 - * MindBank
 - * U.S. Airways
 - * CIENA Corp.
 - * BioNetrix
 - * Net 2000 Communications
 - * Computer Associates
 - * SAIC
 - * Startec
 - * INOVA Health System
 - * Cvent.com

- * Eglobe
- * Metrocall, Inc.
- * DynCorp
- * Consumer Elec. Ass'n
- * The Carlyle Group
- * Cyveillance
- * Nextel Communications
- * fannie Mae
- * Intelsat
- * raper Atlantic
- * Venture Fund, L.P.
- * Freddie Mac
- * Manugistics
- * Raytheon Systems Corporation
- * Spacevest
- * HSBC
- * United Airlines

What did you find ? Do you find anything common between them

Yes, they are all Indians.

We are known as the Indian Mafia (or Internet Mafia). We are the wealthiest among all ethnic communities in America, even faring better than the whites and the natives.

- * There are 3.22 Million Indians in America.
- * 38% of Doctors in America are Indians.
- * 12% of Scientists in America are Indians.
- * 36% of NASA employees are Indians.
- * 34% of MICROSOFT employees are Indians.
- * 28% of IBM employees are Indians
- * 17% of INTEL employees are Indians
- * 13% of XEROX employees are Indians
- * Some of these facts may be known to you.

These facts were recently published in a German Magazine which deals with WORLD HISTORY FACTS ABOUT INDIA.

- * India never invaded any country in her last 10000 years of history.
- * India invented the Number System. Zero was invented by Aryabhata.
- * The World's first university was established in Takshila in 700BC.

more than 10,500 students from all over the world studied more than 60 subjects. The University of Nalanda built in the 4th century BC was one of the greatest achievements of ancient India in the field of education.

* Sanskrit is the mother of all the European languages. Sanskrit is the most suitable language for computer software reported in Forbes magazine, July 1987.

* Although modern images of India often show poverty and lack of development, India was the richest country on earth until the time of British invasion in the early 17th Century.

* The art of Navigation was born in the river Sindh 6000 years ago. The very word Navigation is derived from the Sanskrit word NAVGATI. The word navy is also derived from Sanskrit 'Nau'.

* Algebra, trigonometry and calculus came from India; Quadratic equations were discovered by Sridharacharya in the 11th Century; The largest numbers the greeks and the Romans used were $10^{**}6$ (10 to the power of 6) whereas Hindus used numbers as big as $10^{**}53$ (10 to the power of 53) with specific names as early as 5000 BC during the Vedic period. Even today, the largest used number is Tera $10^{**}12$ (10 to the power of 12).

* According to the Gemological Institute of America, up until 1896, India was the only source for diamonds to the world.

* USA based IEEE has proved what has been a century-old suspicion in the world scientific community that the pioneer of Wireless communication was Prof. Jagdeesh Bose and not Marconi.

* The earliest reservoir and dam for irrigation was built in Saurashtra.

- * According to Saka King Rudradaman I of 150 BC a beautiful lake called 'Sudarshana' was constructed on the hills of Raivataka during Chandragupta Maurya's time.
- * Chess (Shataranja or AshtaPada) was invented in India.
- * When many cultures were only nomadic forest dwellers over 5000 years ago, Indians established Harappan culture in Sindhu Valley (Indus Valley Civilization)
- * The place value system, the decimal system was developed in India in 100 BC.

QUOTES ABOUT INDIA

- a) Albert Einstein said : We owe a lot to the Indians, who taught us how to count, without which no worthwhile scientific discovery could have been made.
- b) Mark Twain said : India is the cradle of the human race, the birthplace of human speech, the mother of history, the grandmother of legend, and the great grand mother of tradition. Our most valuable and most structive materials in the history of man are treasured up in India only.
- c) French scholar Romain Rolland said : If there is one place on the face of earth where all the dreams of living men have found a home from the very earliest days when man began the dream of existence, it is India.
- d) Hu Shih, former Ambassador of China to USA said : India conquered and dominated China culturally for 20 centuries without ever having to send a single soldier across her border.

All the above is just the tip of the iceberg, the list could be endless.


But, if we don't see even a glimpse of that great India in the India that we see today, it clearly means that we are not working up to our potential and that if we do, we could once again; be an evershining and inspiring country setting a bright path for rest of the world to follow. I Hope you enjoyed it and work towards the welfare of INDIA.

Feel proud to be an Indian.

Vandhe Maatharam!

**Compiled by
Pulkit**

Something WE feel you ought to KNOW!

- When one wishes to unlock a door but has only one hand free, the keys are in the opposite pocket.
 - A door will snap shut behind you only when you have left the keys inside room.
 - When ones hands are covered with oil, grease, or glue, your nose will start to itch.
 - Your insurance will cover everything but what has happened.
 - When things seem to be going well, you've probably forgotten to do something.
 - When things seem easy to do, it's because you haven't followed all the instructions.
 - If you keep your cool when everyone else is losing his, it's probably because you have not realized the seriousness of the problem.
 - Most problems are not created nor solved, they only change appearances.
 - You will run to answer the telephone just as the party hangs up on you.
 - Whenever one wants to connect with the internet, the call you've been waiting for all day will arrive.
 - If there are only two programs on TV that are worth your time, they will always be at the same time.
 - The cost is always higher than one budgets for, and it is exactly 3.14 times higher, hence the importance of pi.
 - The probability that one will spill food on one's clothes is directly proportional to the need to be clean.
 - Each and every body submerged in a bathtub will cause the phone to ring.
 - Each and every body sitting on a commode will cause the doorbell to ring.
 - Wind velocity will increase proportionally to the cost of one's hairdo.
 - After discarding something not used for years, you will need it one week later.
 - Arriving early for an appointment will cause the receptionist to be absent, and if one arrives late, everyone else has arrived before you.
 - Do not take life too seriously, because in the end, you won't come out alive anyway.
- 



Incentive will work not the stick

The idea to put the onus of sending a child to school on parents is laudable per se, but it is not feasible. The number of parents who do not or for that matter cannot send their ward to schools runs into millions. How is the government going to handle those who do not follow the directive? Yes, it can ask them to pay a fine but things will work out much better if it wields the carrot rather than the stick. Instead of punishing defaulting parents, the government should make elementary school education so alluring that no parent is able to resist from sending their children to school. What has to be realized is that there is no dearth of motivation for seeing one's child educated. Those who can afford it are already more than keen to ensure good education for their children. Even the illiterate or the indigent dream of their progeny being able to read and write and move upward in life. It is the financial and social conditions that are such that most poor and illiterate people perceive school admission as a luxury or a burden instead of a necessity. Even those who deliberately keep their child at home do so in order to provide for extra hands for labor.

If the school offers something more than education then going there will be slightly more attractive. Free education, free books, mid-day meals and even monetary incentives to children of poor parents can do the magic of convincing the parents to send their wards to school.

Experience tells us, that mid-day meals have led to better attendance in many primary schools across the length and breadth of the country. A properly run meal scheme cannot only provide education but it can also provide essential nourishment, which is the birthright of every child. Especially successful in this regard have been Tamil Nadu's experiences, which are being used by the rest of the nation to launch more effective food for education schemes. At the same time it is necessary to give desired thrust to education, particularly of the girl child. Schools that malfunction without teachers, furniture or black boards extend no welcome sign.

In the end the real prerogative of ameliorating the quality of primary education in our country falls upon those who have been more blessed in this regard and of course the politicians on whom the real onus of allocating funds and the effective implementation of these schemes really rests!!

Anonymous

AMAZING INDIA

Most are aware that our motherland, the nation that we proudly call "Mother India" is a composite embodiment of diverse cultures, traditions, religions and practices. It is this diversity that we revere and that undoubtedly makes us a unique place to live in the entire world. But I suppose few may be aware of the diversity and sheer magnitude of the scientific and technological achievements which the inhabitants of this revered land had accomplished thousands of years ago, thus I bring forth to you a kaleidoscope of India's scientific and technological achievements of the past i.e. during the era when India was a powerhouse of knowledge with mathematicians and astronomers aplenty whose names stand tall even today like the great Aryabhata, Ramanuja, Bhaskaracharya and Varahamihira to name a few. Their achievements are an eye opener to the great scientific temperament and talent that our nation had. The following is a list of some of the most amazing achievements of the past :

- Aryabhata (5th century A.D) suggested in his astronomical text Aryabhatiya that the earth was round, he also suggested through his astronomical observations that it is the earth that rotates and the stars are stationary this was 1000 yrs before Copernicus!)
- 14th century scholar Saayana minister of King Bukka 1 suggested the speed of light as 2202 yojanas in half a nimisha ,(one yojana = 9 miles ,according to Mahabharata half nimisha equals 8/75 seconds) that works out to be 186,413.22 miles per sec and the modern day accepted figure is 186,300 miles per sec!
- Siddhant Shiromani - a work by Bhaskaracharya gives the time period of a solar year as 365.25778756484 days.
- Pingalacharya's Chanda Shastra (200 B.C) mentions the usage of ZERO!
- Vyasa Bhashya (Yoga Sutra 680 A.D) mentions in detail bout the usage of point and the decimal system (recognized by Laplace a French mathematician).
- Aryabhata(5th century A.D)works out the length of a day with reference to fixed stars in the sky as 23 hrs, 56min, 0.1 fractions, modern day value being 23 hrs, 56min, 4sec and 0.091 fractions.
- Varahamihira (6th century A.D) explains the cause of solar eclipse in detail in his work Brihat Samhita.
- Navya Kundali quotes "Gravity as the cause for falling of liquids and solids. It is invisible and is inferred by the falling motion. Gravity acts not only on the body but also on its finer constituents".
- Rig-Veda quotes the seven rays of sunlight and their respective colors (Rig-Veda 8-72-16).
- Agastya Samhita gives a practical model of an electrical cell using an earthen pot, copper plates, zinc powder and saw dust.
- Aryabhatiya (chapter3, verse7) describes the concepts of planetary motion; the text also gives the average distance of various planets from the earth which very nearly corresponds to modern day values.

- Development of iron technology in different parts of India started from 1400 B.C onwards-the spectacular iron pillar of Delhi is a monument to the Indian engineering prowess (it hasn't rusted till date).
- Surya Siddhanta mentions the concept of angles and their measurement.
- Apastamba in his sulba sutras gave a remarkably accurate value of square root of two as equal to $(1+1/3+1/34-1/3434)$, which gives an answer correct to six decimal places.
- Boudhayana gave a theorem concerning right angle triangles, which is the same as the modern day Pythagoras theorem.
- Sisy-dhi-Vridhdhida by Lalla describes the various instruments used for astronomical observations in those times.
- Various concepts of Vedic mathematics and within quotations (algebra) are even popular today.
- The great Kanada propounded the concept of “parmanu” or atom and suggested that it is indivisible and fundamental part of matter.
- Vrksayurveda of Varahamihira (500A.D) gives the process involving grafting of plants to obtain hybrid varieties.
- Sushruta (4th century B.C) was the father of plastic surgery and an expert in anesthesia. An expert in removing cataract, urinary stones and treating fractures; he was the first to perform a caesarean.
- Charaka was the first physician to present the concept of digestion, metabolism and immunity, he authored the Charakasamhita.
- The Vedas give the process of manufacturing and corresponding usage of a wide variety of medicines (derived from natural herbs) under “ayurveda”, the usage of which is prevalent in India till date.
- Patanjali was the founder of Yoga System and the author of Yoga Sutras, which is the first document of its kind to expound techniques of control over body and mind by practice of yoga.

The course of our history suggests that these spell binding achievements either got unnoticed or unutilized; the reason for this according to me may be three fold:

- Constant influx of foreign invaders over the course of our history which wrought irreparable damage as they thrust upon the people there own ideology, cultures and traditions.
- The indifference of the people, aggravated due to the fact that since the country was ruled by invaders, monarchs and warlords each interested in expanding their respective empires ,there was seldom any stress given on scientific thought and learning.
- Lingual variations leading to lack of awareness may also have played a part.

Despite this it doesn't make us less proud to be the inheritors of such a rich scientific and technological heritage which adds on to the various facets of our ever “AMAZING INDIA”.

The Worst of the possible sorts...

THE WORST HIJACKING

We shall never know the identity of the man who in 1976 made the most unsuccessful hijack attempt ever. On a flight across America, he rose from his seat, drew gun and took the stewardess hostage. "Take me to Detroit," he demanded. "We're already going to Detroit," she replied. "Oh ... good," he said, and sat down again.

THE WORST BANK ROBBERY

In August 1975 three men were on their way in to rob the Royal Bank of Scotland at Rothesay, when they got stuck in the revolving doors. They had to be helped free by the staff and, after thanking everyone, sheepishly left the building. A few minutes later they returned and announced their intention of robbing the bank, but none of the staff believed them. When they demanded 5,000 pounds in cash, the head cashier laughed at them, convinced that it was a practical joke. Then one of the men jumped over the counter, but fell to the floor clutching his ankle. The other two tried to make their getaway, but got trapped in the revolving doors again.

THE WORST ANIMAL RESCUE

During the firemen's strike of 1978, the British Army had taken over emergency fire fighting and on 14 January they were called out by an elderly lady in South London to retrieve her cat which had become trapped up a tree. They arrived with impressive haste and soon discharged their duty. So grateful was the lady that she invited them all in for tea. Driving off later, with fond farewells completed, they ran over the cat and killed it!!

THE WORST INSURANCE

This is the best lawyer story of the year, decade, and probably the century. A Charlotte, NC, lawyer purchased a box of very rare and expensive cigars, then insured them against fire among other things. Within a month having smoked his entire stockpile of these great cigars and without yet having made even his first premium payment on the policy, the lawyer filed a claim against the insurance company. In his claim, the lawyer stated the cigars were lost "in a series of small fires." The insurance company refused to pay, citing the obvious reason: that the man had consumed the cigars in the normal fashion. The lawyer sued .. and won! In delivering the ruling, the judge agreed with the insurance company that the claim was frivolous. The Judge stated, nevertheless, that the lawyer held a policy from the company in which it had warranted that the cigars were insurable and also guaranteed that it would insure them against fire, without defining what is considered to be unacceptable fire, and was obligated to pay the claim. Rather than endure lengthy and costly appeal process, the insurance company accepted the ruling and paid \$15,000 to the lawyer for his loss of the rare cigars lost in the "fires."

NOW FOR THE BEST PART...

After the lawyer cashed the check, the insurance company had him arrested on 24 counts of ARSON!!!! With his own insurance claim and testimony from the previous case being used against him, the lawyer was convicted of intentionally burning his insured property and was sentenced to 24 months in jail and a \$24,000 fine. This is a true story and was the 1st place winner in the recent Criminal Lawyers Award Contest.

U.F.O

The outside world or space is unknown and its extensions are immeasurable. It has been tried for years to get an evidence of alien existence in the universe. Unfortunately, inspite of our greatest efforts we have not yet been able to find anything substantial. However, there have been numerous sightings of the saucer-shaped flying objects, commonly known as UFO's (Unidentified Flying Objects), in the sky, which have amazed the human beings more than anything else. From the resources available their have been UFO sightings from as back as the Bible. In recent past also there have been reports of many UFO sightings by the people from



A UFO is any flying object, which has not been identified to be natural or man-made entity. Many people think them to be alien spacecraft, although we don't have any strong evidences in view of this idea. UFO's of all shapes and sizes have been seen, but most of them are round, cylindrical, cigar shaped or triangular. The first documented reports date back into the mid-1800s. But it wasn't till 1940s that the sightings of UFOs started to hit the headlines. There is no doubt that unidentified objects in the sky exist.

ARGUMENTS AGAINST UFO PHENOMENON

There is no evidence with us depicting the presence of intelligent aliens living anywhere in our Solar System. Using any of our fastest aircraft it will take over 73,000 years for us to reach the nearest star system, Alpha Centauri.

Einstein's theory has put a limit on how fast anything can travel i.e. the speed of light. But traveling at this speed requires a large amount of energy which is not possible to generate.

There has never been found any alien spacecraft officially around the world, nearly all photographs of the UFOs are blurred and may have been proved to be forgeries.

Furthermore, we cannot say that this UFOs that we see are alien spacecrafts. They can be thousands of other things also.

ARGUMENTS SUPPORTING UFO PHENOMENON

Many planets have been found outside our solar system revolving around other stars as is the case with the Earth.

We can consider the idea that alien technology is far more advanced than which allows more effective space travel.

The other case may be that Einstein's theory may be correct now but may be it is proved wrong in the future and it is possible to have speeds faster than speed of light.

We cannot leave aside thousands of alien photographs and eyewitness accounts of UFOs. These all cannot be claimed to be wrong.

There has been burn marks and debris of crashes on the ground where the UFOs are said to be witnessed. This also adds to existence of UFOs.

THE PROPULSION SYSTEM OF THE UFO'S

During many sightings of the UFO's it has been observed that the UFO in sight disappears or seem to 'blink out' immediately. Black holes have been thought to be wormholes for a long time i.e. if one were to enter the hole from one side he would emerge out of it at a far of place from the origin point. They are, according to this theory, what amounts to the 'rips' in the fabric of time. Now, if the UFOs were to use such a propulsion system such that they could create such a field around the spacecraft they could rip the fabric of time and be able to leave our dimensions instantly and reach a distant point in space.

UFO GLOSSARY

Alien – A being from another planet. An extraterrestrial. There are many types mentioned including grays – small humanoids with large eyes and heads, reptoids - reptilian creatures.

Alien Abduction – Some people have had experiences in which they were taken from their beds or cars by aliens who took them into their crafts for medical tests and other things.

Angel Hair – long, thin wispy fibers that have been seen to fall from the sky after some UFO sightings. It has been very difficult to collect samples for analysis because angel hair disintegrates quickly.

Cigar – Some UFO's have been reported to be cigar-shaped.

Contactee – A person who claims that aliens have visited him personally.

Earthquake Lights – Lights that sometimes appear just before or during an earthquake.

Flying Saucers – This is a name for certain types of UFO's.

Long-Distance Echoes – A radio phenomenon in which transmissions are reflected back to Earth by some unknown mechanism.

Mother ship – Some observers have reported large UFOs out of which smaller craft seem to come, like UFO ‘aircraft carrier’.

MUFON – The Mutual UFO Network. This happens to be the largest UFO organization.

Old Hag – a form of sleep paralysis in which an individual senses a presence in his bedroom, even on the bed or on top of him.

Rare Earth Hypothesis – Hypothesis that, since the combination of factors that contributed to the evolution of intelligence on Earth are rare in the cosmos, then so must intelligent life be rare in the cosmos.

Skeptics – Someone who doesn’t believe that UFOs are alien spacecraft because there is not enough evidence.

Spook lights – Lights, which appear in the skies regularly in the same area.

Sundog – a ‘false sun’ formed by the sun shining through a cloud of ice crystals.

Tectonic Strain Theory – The theory that UFOs are electromagnetic phenomenon that is generated by tectonic stresses in the earth’s crust.

Walk-in – An extraterrestrial soul that has been invited to take over a human body by the body’s current inhabitant.

Wanderer – An extraterrestrial soul that has chosen to be born into a human body.

Reverie’s note<< Man, is he an alien?? >>

Chhitiz Buchasia
Class of 2008

THE TRUTH ABOUT SOCIETY AND VIOLENCE

All that glitters is not gold. Well, India may be shining- as the prophecies claim- but in the true sense – the light of social awakening and ethical renaissance is yet to dawn upon the real India.

In an age where corruption encapsulates power, rape and dowry pronounce the fairer sex, the weaker sex and violence and vandalism kindles daily columns- it's hard to put a veil on this ugly face of humanity.

There is so much of indifference in society today. We don't celebrate each other's occasions there's no room for tolerance. And this has percolated down to domestic as well as professional spheres. Children and youth are becoming more aggressive and elitist. This scourge is an offshoot of the prevalent social mind-set – worry and stress encourage flamboyant attitudes – rising competitiveness exposing frustrated souls – quest for mullah burying general values and ethics.

ECONOMIC PERSPECTIVE

Consider this, an air-conditioner which used to cost forty-thousand sometime back may now be available at half the cost, but common man's bicycle which cost five-hundred a decade back, is now priced at one-thousand. To whom do these reforms cater? Definitely not the common man. He still finds himself in the matrix of chaos and struggle – trying to find the surface of economic security and stability, and if unable to do so- succumbs to his patience and becomes a part of the mob – the social mob – and their number is increasing day by day, moreover, the economic divide between rich and poor, glossy game-shows on television making rich even richer, ultra-modern metropolis lifestyle, expensive education and flashy page 3 paparazzi just go on to prove one thing – only money buys money.

SOCIAL PERSPECTIVE

But economy is not the sole stick in this circus. I don't fancy the famous Marxist notion: 'Class matters above all, and so the rich-poor drives social relations, and hence violence' to be the only factor for deterioration of society. For, poverty can be an exacerbating factor in poor areas, but is rarely the originating factor. They don't have resources and lack organization to bring reforms. The poor are typically the victims of gross injustice. They fall prey to dirty policies and selfish motives, and in the name of caste & religion they lose their identities. Take for example – India had a bloody insurrection for over a decade in Punjab – but Jat Sikhs, the richest community in the state, spearheaded the revolt. Also, by contrast, some of the poorest and most (egalitarian) areas such as North Bihar & North Karnataka are free from terrorism. The Japanese Shinrikyo cult, which tried to kill thousands with nerve gas in the Tokyo metro system also consisted of wealthy, well educated people; so did the red brigades in Italy, who kidnapped and murdered former Prime Minister Aldo Moro. The roots of violence & terror lie in ethnic, religious and ideological differences, not income disparities.

PLIGHT OF WOMEN

Another major reason concern in the atrocities towards women. Even in times when India boasts of several 'Miss World', 'Miss Universe' and similar sounding titles, and talks about one-half reservation of women in parliament, they still remain downtrodden and insecure. They are the victims of male ego and chauvinism. Increasing incidences of dowry deaths and tortures and heinous crimes of rape clearly highlight the ugly facet of man – as hungry wolves who still consider women as an inferior race and consider them as mere objects of lust – or should I say they resort to such crimes because they are low-esteemed, and feel themselves inferior due to social upheaval of women, and cannot withstand their newly gained freedom. Perhaps such people still want them to be tied with ropes in their backyard and any word of protest is interpreted as backlash and rebellion. Whatever the case may be, one thing is clear – this is a death of morals, and the graveyard is flourishing.

SOLUTIONS

Being an integral part of such society, it becomes hard to isolate us from the crowd and purport to be dumb statues. In fact being the frontiers of modern brigade, we need to identify loopholes in current social set up and redefine certain standards.

- In my view, the concept of moral education should be materialized and incorporated not only at primary level, but at professional level as well, to inculcate basic ethics, values and etiquettes. In the heart of competition and race of success, somewhere down the line the strata of mutual love and compatibility are getting eroded amongst today's youth. Meditation courses, yoga may just help in bringing down incessant fears, frustration and anger, and help oneself to introspect and evolve as better human.
- The Government's move to lower the IIM fees and a quarter reservations for the underprivileged in public schools is appreciable and more such reforms should see daylight, as illiteracy is a major deterrent in moral upliftment, and money should not arrest the right to get educated. Perhaps the annual budget can be more common-man friendly rather than cascades of mini-budgets playing a gimmick to attract votes.
- The media can play a big role in fencing the corridors of power to curb corrupt practices. Tapes of leaders accepting bribes clearly reveal the political turmoil. Media can help to bring transparency to the whole system.
- The constitution should be amended to rectify age-old follies, and guarantee quick and apt justice to people, or else this holocaust would never cease, stringent laws should be framed to check tyrannical acts of dowry, molestation – the least in such cases being public disgrace and execution. The accused should face public fury, not the victim.
- No doubt what the raw young minds visually perceive has a lasting impact on them. Today children are exposed to sex and violence too preposterously. Whether it be terrorism or underworld being glamorized in Indian cinema with their swanky gadgets, sleek maneuvers and lifestyle capturing young minds, or unpalatable daily soaps pouring excessive domestic violence and ambary in the name of the 'family' entertainment. Wives slapping their husbands, children outraging against their parents, three divorces per day – four murders per week – this are the stuff we are subjected to, O.K., we are mature enough to decide what we want to see – but where are the choices? Clearly, its high time the contents of idiot box and cinema are sanitized and suited to Indian context. Or else, the slaughter of morals would continue.
- Home is the place where virtues are shaped and values & ethics are imparted. Constant nagging by parents – undue stress and fear of failure at work – discouraging interests of children, or cornering their freedom are all possible causes of patent insurgencies and personality pitfalls. Thus, right, responsible parenting and congenial environment at home necessitate confidence building of child at early stage and provides threshold to impregnable personality.

We are a part and parcel of a society, which is currently in doldrums. The ethics are not only misplaced but also misinterpreted. We have marched into new millennium on crutches of mutual hatred, jealousy, violence and corruption. Personal upheaval and social reforms are the need of the hour. Selfish motives have certainly put ethics and morals in a tizzy, but civilizations are known to evolve - and this time its surely needs to reincarnation of thoughts.

Ravi Rana
Class of 2006

It's just about making a Day – Making a life

One day you suddenly find that all faces around you have lit up, you see hope every where, you feel like laughing too often, even what looked most boring to you, seemed to have got some charisma in it...

Who will not cherish to have that kind of experience everyday? There are small things that we all know, but just because we don't care to put those small things into practice, such a life becomes a distant goal. When we enjoy ourselves we feel in a remote corner of our heart that we are bound to suffer (wasting time!!). When we have to work, we ask ourselves, 'When will we get freedom from all these' — when we were in school we thought college days would be really great, now we are in college and we all will be over as soon as we get a job. But unfortunately that's not going to be true (even billionaires suffer from tension and depression!!).

It's all in our way of life, wherein lies the secret of happiness. We can't just keep looking for greener pastures. **We must make this day, this place -- a great experience...**

Here are a few mantras for living a truly cool life.

- Do not waste time in criticizing and complaining. What good comes out of it? It is better to light a candle than to curse the darkness. Always focus on the positive side and make best use of whatever is available.
- decisiveness.
- Take it easy when somebody wrongs you. Always visualize the situation after interchanging positions. When you forgive somebody, it matters little what the wrong-doer did, the *feel-good* emotion your heart is much more important – moreover you grow bigger... And the stop-cork of your life – 'What people would say?'. It seems that this factor governs, from every twist of your muscles to every sensation in your brain tissues. Your life is going to change completely if you just drive off this people factor – you'll feel so free...
- ...And about your work, I feel nothing better than quoting Wilson Greatbatch – *"If you can get the fear of failure and the craving for success out of your system, it will leave you with a clearer mind to concentrate on the core of the problem in front of you. You can focus on what really needs to be done, free from all encumbrances the world would so willingly lay on you – and 90 percent of life's stresses will drop away. Only then you will find true happiness... Go forth and select something you want to do that is a good thing in the Lord's sight. Then study it, work at it, live it. Work harder at it than you have ever worked before... Just enjoy total immersion in it. And things will work out. The good lord will smile at your effort and you'll be left the happiest person in the world."*
- We must learn early how to pray. Prayer is not just telling something to God but rather God listening to you. Keep aside the idea that God only lives in the shrine (though his manifestation is more vividly felt there). Take him to your work place, talk to him while you are on your bed to sleep... No rituals, Man! Remember yours is only to share, it is HE who is supposed to take decisions.

See if you can follow them...

And live with passion...

Take the flight of freedom...

Anonymous

HERBAL HEALERS

1) MARIGOLD: Marigold is one of the best herbs for treating local skin problems. Infusions or decoctions of Calendula petals decrease the inflammation of sprains, stings, varicose veins and other swellings and also soothe burns, sunburns, rashes and skin irritations. These remedies are excellent for inflamed and bruised skin, their antiseptic and healing properties helping to prevent the spread of infection and accelerate the healing. Marigold is also a cleansing and detoxifying herb, and the infusion and tincture are used to treat chronic infections. Taken internally, it has been used traditionally to promote the draining of swollen lymph glands such as tonsillitis.

MAIN PROPERTIES: Anti-inflammatory, astringent, heals wounds, antiseptic, detoxifying.

2) CAMPHOR: Marco Polo was the first to note that the Chinese used camphor oil as a medicine, scent and embalming fluid. Camphor crystals have strong antiseptic, stimulant and antispasmodic properties and are applied externally as unguents or balms as a counter-irritant and analgesic liniment to relieve arthritic and rheumatic pains, neuralgia and back pain. It may also be applied to skin problems, such as cold sores and chilblains, and used as a chest rub for bronchitis and other chest infections.

MAIN PROPERTIES: Antiseptic, antispasmodic, analgesic, expectorant.

3) CARDAMOM: Cardamom has been praised as a spice and medicine. It is an excellent remedy for many digestive problems, helping to soothe indigestion, dyspepsia, gastrological colon spasms and flatulence. It has an aromatic and pungent taste and combines well with other herbs and helps to disguise the less pleasant taste of other herbs.

MAIN PROPERTIES: Eases stomach pain, carminative, aromatic, antispasmodic.

4) CINNAMON: Cinnamon has a long history of use in India and was first used medicinally in Egypt and parts of Europe from about 500 BC. The infusion or powder is used for stomach pains and cramps. Traditionally, the herb was taken for colds, flu and digestive problems, and it is still used in much the same way today.

MAIN PROPERTIES: Warming stimulant, carminative, antispasmodic, antiseptic, anti-viral.

5) CLOVE: The dried flower buds, clove, are extensively used as spice. The buds, leaves and stems are used for the extractions of clove's oil. Both the oil and the flower buds have been valued as a herbal medicine for a long time. The oil contains *eugenol*, a strong anesthetic and antiseptic substance. Cloves are also well known for their antispasmodic and stimulative properties.

MAIN PROPERTIES: Antiseptic, mind and body stimulant, analgesic, antibacterial, carminative.

6) LEMON GRASS: Its oil is used as a culinary flavoring, a scent and medicine. Lemon grass is principally taken as a tea to remedy digestive problems diarrhea and stomachache. It relaxes the muscles of the stomach and gut, relieves cramping pains and flatulence and is particularly suitable for children. It is applied externally as a poultice or as diluted essential oil to ease pain and arthritis.

MAIN PROPERTIES: Digestive, antispasmodic, analgesic.

7) EUCALYPTUS, BLUE GUM: A traditional aboriginal remedy, eucalyptus is a powerful antiseptic used all over the world for relieving coughs and colds, sore throats and other infections. The leaves cool the body and relieve fever. Inhaling the vapors of the essential oils heated in water clears sinus and bronchial congestions. The essential oil has also strong antibiotic, anti-viral and anti-fungal action. Eucalyptus is a common ingredient in many over-the-counter cold remedies.

MAIN PROPERTIES: Antiseptic, expectorant, stimulates local blood flow, anti-fungal.

8) GARLIC: Garlic is one of the most effective anti-biotic plants available, acting on bacteria, viruses and alimentary parasites. It counters many infections, including those of the nose, throat and chest. Garlic is also known to reduce cholesterol, helps circulatory disorders, such as high blood pressure, and lower blood sugar levels, making it useful in cases of late-onset diabetes.

MAIN PROPERTIES: Antibiotic, expectorant, diaphoretic, antispasmodic, expels worms.

9) GINGER: Familiar as a spice and flavoring, ginger is also one of the world's best medicines. The Chinese consider ginger as an important drug to treat cold and encourage sweating. Ginger brings relief to digestion, stimulates circulation, reduce headaches and kill intestinal parasites.

MAIN PROPERTIES: Diaphoretic, carminative, circulatory stimulant, inhibits coughing, antiinflammatory, antiseptic.

10) JASMINE: Although it is rarely used today in the western World, flower syrups were used for coughs and leaf tea to rinse sore eyes and wounds. Jasmine flowers make a calming and sedative infusion, taken to relieve tension. The oil is considered antidepressant and relaxing. It is used externally to soothe dry and sensitive skin.

MAIN PROPERTIES: Aromatic, anti-spasmodic, expectorant.

Anonymous hypochondriac

IDENTITY THEFT

Students may go to college to study, but there's something many don't learn about until it's too late : identity theft. A growing peril in the electronic age, this particular brand of banditry usually entails stealing someone's identity by using his or her personal financial information — name, Social Security number, date of birth, and the like — to apply for new credit cards and loans. The victim isn't accountable for most of the money stolen but still must deal with the major headache of erasing bogus accounts from his credit record and doing battle with collection agencies. According to the Federal Trade Commission, close to 10 million Americans fell victim to identity theft last year, a 41 percent increase from 2002.

Financially inexperienced college students are particularly vulnerable. That's because roughly half of all colleges use Social Security numbers as student identifiers, and many post grads by ID number. And it's the Social Security number that unlocks the door to a credit history.

College and university computer systems are a gold mine of personal information about students, and several security breaches have occurred in the past few years. Servers at the University of Georgia, for example, were hacked last year, exposing key data about thousands of applicants and students. At New York University, lax security settings led to the accidental leak of personal information not once but twice. Already, a handful of states including California, New York, and Wisconsin have enacted laws restricting or prohibiting college and university use of Social Security numbers. Some school allow students a choice in picking a student ID number or their Social Security number.

Exercise care. Students are also easy prey because they are barraged with credit applications. Half of all students receive pre-approved offers for credit cards weekly, according to the U.S. Department of Education. They often just toss the credit offers in the wastebasket. Big mistake. "College students should do the standard things that people everywhere should do," says Beth Givens, director of the Privacy Rights Clearinghouse. "Protect the incoming and outgoing mail. Don't leave your mail around, pick it up promptly, and put it away in a safe place. Shred anything that would have your sensitive personal information." Identity theft can go undiscovered for months, even years. And college students may not realize that even though they may have little credit in their own names their identities can be hijacked. Thieves have even been known to apply for student loans, so students should keep a close eye on their loan portfolio. College students who use the Internet regularly — and most do — must also be careful when downloading music or videos. Identity thieves have been known to attach special software to files that can grab any personal financial information stored on a computer. Or a student may unwittingly give away his or her financial dossier by falling for a scheme. Scammers send official—looking E-mails that purport to be from, say, a bank or online business, asking for credit card and bank account numbers and passwords. That's what happened when some Citibank customers recently received phony E-mails requesting account information, ostensibly to help clear up a "billing error".

Perhaps the most disturbing part about identity theft is that it's often extremely personal. One study found that 16 percent of identity theft is committed by friends, family members, or coworkers. The consequences of identity theft can be devastating for students as they get their adult lives off the ground. Their credit record is like a financial report card : It tells the world whether they pay their bills on time and how big a debt burden they bear. Even some employers look at the credit reports of potential hires.

That's why it's important for identity theft victims to repair their credit as quickly as possible. Students must notify the credit bank that they have been victimized and request that a fraud alert be placed on their record, a police report be filed, and any existing accounts that have been tampered with or opened by strangers be closed. Identity theft is a very serious problem and it must be checked before it becomes a big headache for students all over the world.

WEIRD FACTS

Mosquito repellents do not repel. They hide you. The spray blocks the mosquito's sensors so they don't know you're there.

Dentists have recommended that a toothbrush be kept at least 6 feet away from a toilet to avoid airborne particles resulting from the flush.

The liquid inside young coconuts can be used as substitute for blood plasma.

No piece of paper can be folded in half more than 7 times.

Donkeys kill more people annually than plane crashes.

The king of hearts is the only king without a mustache.

Venus is the only planet that rotates clockwise.

Apples, not caffeine, are more efficient at waking you up in the morning.

Most dust particles in your house are made from dead skin.

The first owner of the Marlboro Company died of lung cancer.

Pearls melt in vinegar.

The three most valuable brand names on earth : Marlboro, Coca-Cola and Budweiser, in that order.

It is possible to lead a cow upstairs... but not downstairs.

A duck's quack doesn't echo and no one knows why.

Turtles can breathe through their butts.

Elephants are the only animals that can't jump.

Women blink nearly twice as much as men.

It's physically impossible for you to lick your elbow.

A snail can sleep for three years.

No word in the English language rhymes with "MONTH".

Our eyes are always the same size from birth, but our nose and ears never stop growing. SCARY!!!

All polar bears are left-handed.

A crocodile cannot stick its tongue out.

DEATH : A TRIP TO PLAN

The passing of others is accepted as natural until the DEATH 'threatens' one personally or anyone for whom we hold great affection, the emotional component comes into play and the objective of DEATH becomes a very real and intense experience

Death is a phenomenon of life and is bound to happen to all. Naturally, we resist death. We literally, live to live. Friends, don't we get excited, whenever we hear or personally experience the miraculous returns from the brink of deaths of some people. Such experiences, or stories awaken in most a sense that death can be circumvented, failed or at the least, be postponed as per our willingness and determination to live, despite so called insurmountable odds.

As parents, there is a powerful tendency to avoid the subject of child's death as the parents live in the same chronic fear of this phenomenon. Age, time or convenience is no issue.

In Aging too, the resistance to acknowledging death is still common, although there occurs. Some willingness in the aged, to talk about it, but the fear still remains. But, it is difficult to find someone to have a discussion. Perhaps declining strengths, energy and enthusiasm contribute to the willingness to address death. Everything that was born has to die one day. This hard truth is said to be NIGHTMARE but it is fact of acceptance for other. The only solution for this nightmare is its acceptance and live life.

Mrityunjayam. This word means VICTORY OVER DEATH?

No. It means the victory over the fear of death and it can only be made possible by its acceptance. The acceptance of death can only be achieved by maturity and by knowing the art of living, which explains the way to live life but not just existing.

The acceptance of death creates many and diverse benefits. It benefits those who love you, those who will be responsible for your care and those who may have to make critical decisions for you as well. It is a tremendous benefit to you. Do a reality check, both for you and for those close to you. Ask them their preferences and discuss yours. They may be reluctant. However, it is in your, and their, best interest to attempt to work out incidental strategies when everyone is calm and best able to cooperate. Remember, strokes, aneurisms, accidents, do not afford opportunity for discussion and choice at that time. Why not do it now?

To decide to confront the reality of death is, without doubt, an enlightening and powerful experience. It allows for insight and an opportunity to make beneficial choices for self and others as well. It promises a medium of control over a seriously important experience that is generally associated with helplessness and the fear and frustration which accompanies it. To create a plan surrounding one's death is as vital as becoming more conscious of one's life. It can be educational, inspirational and a catalyst for achieving peace and success without sacrificing happiness. It is the seed of a new prosperity (spiritual, financial and emotional) as well as a new vision.

So, Death is a real trip. Friends, plan for it,

Sandeep Ramamurty
B.E. Environment
H60/2K4

PSYCHOMETRIC ANALYSIS

I know that you must be wondering about which job you are going to get after 4 years of study here. The topic I have chosen concerns with the process of selecting suitable candidates by various companies.

Psychometrics is a type of analysis of the line of thinking of a person. Lets take an example, suppose you are asked - Which newspaper do you read every day ? Then come - What do you read first in the paper ? If you read the sports pages, chances are you will be considered somebody "on the move" who will hop jobs at the first chance. If you say you read the obits first, you are supposed have strong loyalties and you stick to a job. And if you read the Edit page first, you like challenges. Such questions and interpretations of answers are not clearned up, they are will thought out by professional psychologists hired by company. These days booming sectors of the economy are lising thousands everymonth but they suffer from high attrition eates like 20% in IT sector and 40-50% in BPO meaning that empleyre liked are not upto the mark. Twerfore companies are increasingly depunding on "Psychometeic tools" to get the right man or woman with right "attitude" for the job. So as future employes or exesutives, we must know that will also be subjected to these lests and to be winmmnes. We have to time out tops in these exams too.

From companies point of view, psychometric lists cupplement the findings that come through conventional intrviews and help a company get the best fit candidate. The tests may not be sore basis for appointments but provide by inputs in a candidate's presonality, emotional intelliguree, ability to work in a team and on whettur he'll stick to job. Exprets believe that such tests have brought down atbrition rates of some companies by some 5% companies use psychometric lests besides the usual one's to lest tecnical and communication stills and analytical cupatilities to pick surior staff for jobs involving man management which hads to better team work and proanctivity.

White inveutional tests could be menis pulatid but in order to ansure that reponses are not fudged, the questions are asbed from different angles. So if you aren't consistent, you get caught out. So, be answer of the new methods your future bosses are trying to find to test you out, Better be prepared to prove your mettle.

Sushant Gupta
H-55/2K4

Miscellaneous

MANIPUR :- BATTLEFIELD INSIDE PARADISE

As I recall back memories of my far-away home. I see myself walking in the fields, feeling the softness of the blossoms and the fragrance of the beautiful orchids, dancing in the wind. The sun rises from above the hills and sends flashing rays which make every dew drops shine like pearls and adding more beauty to a little paradise is itself.

But as I go deeper into these memories, I see better areas. I hear far cries from a distance. Turn myself to see the paradise painted in red and those haunting memories fade out. It is truly a fact that Manipur like any other north-eastern states is a disturbed area. Strikes and bandhs are a common sight in this ill-fated region. Describing Manipur is almost like describing a battle-field. Militancy problems have risen to its peak and militants have turned themselves into denials for a cause which many people have forgotten off.

Militancy in the state has turned the minds of the people into a dilemma and people are for security and the bright futures of the generations to come, ultimately turning themselves against the militants. History has been a mute witness to the fact that New Delhi does not give much need and importance to the region. The step-motherly treatment meted out to this region can be ascertained from the fact that even if dozens are killed in the region, New Delhi is silent, and is least bothered. While on the other hand, a single loss of life in Jammu & Kashmir or any other region of the mainland, makes its way to the headlines of the major newspaper across the country and country and often led to hues cries inside inside the parliament.

When other states are making rapid strides towards progress and development, the North-East region is still what it was a few decades ago- A stagnant pool. The Central Govt. is not doing enough to develop the region and to make it at par with the other states of the Indian mainland. Poverty and lack of infrastructure development have been the major factors for the emerging generations of these states to take up arms and fight for a cause, they are hardly aware-of. The Indian Govt. should realise that by sending more troops into this region to curb the militant problems, they are not bringing peace and harmony to the state but causing more and more bloodshed and forcing the youth to take up arms.

The use of brutal and excessive force, ill-conceived adhok policies, meant only to press the people has turned their favour with the militants. The imposition of the Draconian Law- The Armed force Special Act in these states is a testimony to this fact. This act gives power to the army to arrest any person without warrant or shoot any suspect which may be linked with the terrorist outfits. The recent chaos and cries among the people of these states to remove this draconian act have been unheard to by the central govt. and nothing has been done to deal with the problem.

To say about the solution to a problem that has been existing for more than 50 years, I would say, 'it is rather difficult'. But if something has to be done by the Indian government's side, it is to overcome the Insurgent Groups operating in this region through good will, development and genuine concern for its people.

O. Wangkhomba
Class of 2008

5th September 2004 - The D.C.E.

I need not mention that 5th September is celebrated as 'Teacher's Day' in India. It is unfortunate that generally school teachers are felicitated on teachers day by the govt. It would be encouraging if name of lecturers and professors are also included in the list. Those in the business would agree, with me, that teacher is still a respectable word.

5th September, 2004 was special for D.C.E. as prof P.B. Sharma, the Principal, was awarded 1st prestigious Jeewanmal Nahata Memorial Award in constitution club, N. Delhi. It is exemplary the way Prof. P.B. Sharma is discharging his responsibility — there is nothing better than a leader leading from the front. His greatness can be summed up in just one word : 'Performer'. Often when chips have been down, he has bailed out the D.C.E. with his dogged and dedicated performance. But he is not just a performer, but an eloquent presenter, who is a delight to watch. And even more than that he is a man on whom his college team has come to rely for his professionalism and intensity. A measure of his achievement is evident from the fact that Prof. P.B. Sharma got 1st Jeewanmal Nahata Memorial Award for his contribution in the field of education. He was presented a shawl, silver plaque and cash award of Rs. 51,000 in constitution club, N. Delhi on 5th Sept. 2004. Prof Sharma has long way to go in the field of education and predictably in response to the award, he expressed that it would make him more responsible towards society.

Dr. Charles Garfield has done extensive research on peak performers, both in athletics and business. One of the main things his research showed was that almost all of world class athletes and other peak performers are visualizers. They see it; they feel it; they experience it before they actually do it. They begin with the end in mind.

Prof. Sharma is also a great visualizer; he has clearcut vision about D.C.E. as to how it could be a world class institute. When brief profile (contribution) of Prof. Sharma as an educationist was being read out eloquently by the anchor, the whole atmosphere in



constitution club was full of appreciation and our chests swelled with pride. I was no exception to it; I felt proud of being a part of D.C.E. which is led by such an educationist. It was certainly a moment of glory in the chapter of D.C.E.

There is no doubt that the D.C.E. is being managed by very efficient and able professors and lecturers, for their selection being done by U.P.S.C. But still it has seen slumps in its growth pattern. One of the reason for this slump could be the leadership. Efficient, management without effective leadership is, as one individual has phrased it, "like straightning deck chairs on Titanic" No management success can compensate for failure in leadership. But leadership is hard because we are often caught in a management paradigm.

In the words of both Peter Drucker and Warren Bennis, "Management is doing things right; leadership is doing the right things." Management is efficiency in climbing the Ladder of success, leadership determines whether the ladder is leaning against the right wall. The students of D.C.E. should feel proud that they have got a true leader in the name of Prof. P.B. Sharma. Under his able leadership the D.C.E. has regained its lost prestige. It was ranked tenth in the survey done by ORG-MARG surveyy on colleges 2004. (India today May 17,2004) Hopefully, the award to the principal, will inspire every students to perform (best) excellent in their respective field and will also spur young lecturers who have just began their career in teaching. Aristotle wrote, "we are what we repeatedly do. Excellence, then is not an act but a habit." Let us inculcate this habit of performing excellently.

Nand Kr.
Deptt. of Humanities

Ramayana - American Ishtyle

How does an ABCD (American Born Confused Desi) explain to his younger brother the topic — When and how did Diwali begin ? This is how he goes about it... (preferably read it with an American accent)

So, like this dude had, like, a big cool kingdom and people liked him. But, like, his step mom, or something', was kind of evil, and she forced her husband to, like, you know, send this cool dude, he was Ram, to some national forest or reserve or something'.

Since he was going, for like, something' like more than 10 years or so, he decided to take his wife and his bro along. You know... so that they could all chill out together. But dude, the forest was real scary ride, really man, they had monkeys and devils and stuff like that. But this dude, Ram, killed them with darts, bows and arrows, so it was fine.

But then some bad gansta' boys, some jerk called Ravan, picks up his babe (Sita) and lures her away to his hood. And boy, were our man, and his bro Lakshman, angry ! And you don't tick off these dudes 'coz, he is just supercool and like, all the gods were with him. So anyways, you don't mess with gods.

So, Ram and his bro get an army of monkeys. Dude, don't ask me how they trained the damn monkeys, just go along with me, OK. So, Ram, Lakhs, and their monkeys whip this gansta in his own hood.

Anyways, by now, their time's up in the forest and it gets kinda boring. You know no TVs or malls or stuff like that. So, they decided to hitch back home. His bro and the wife are back home. People thought, well, you know, at least they deserve something' nice and they didn't have any bars and clubs in those days. So they couldn't take them out for a drink, so the people decided to smoke or gamble. And they also had some lamps, they lit the lamps too. So it was pretty cool... you know with all those fireworks really, they had some local band play along with the fireworks, and you know what, dude, that was the very first, no kidding, that was the very first musical-synchronized fireworks. You know, like the 4th of the July stuff, but just more cooler and stuff, you know.

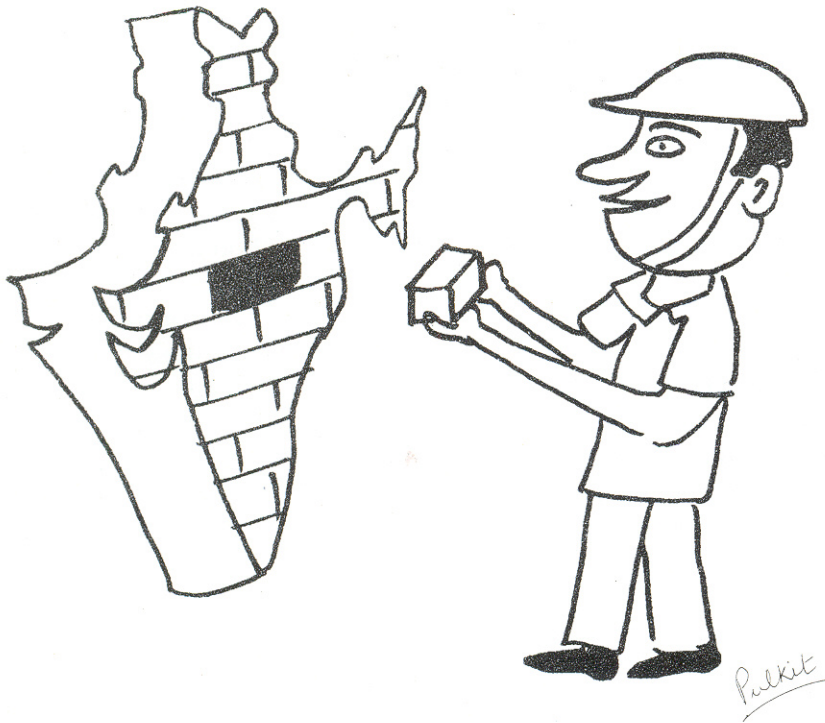
And, so dude, that was how, like, this festival started.

Cool !!! Diwali Rocks Maan !

Ankur Kalra
Ist Year/PE

Role of civil engineers in Indian Society

Since the beginning of civilization, progress has been an integral part of man. Cave man progressed to human settlement in villages, towns and later cities. Man himself has made this development of humans possible due to innovations. Human settlement started when man learnt to tame animals, grow crops and build small sheds for himself. These sheds were mainly made of mud and clay. With the increase in human members, more sheds were needed and hence villages grew into towns. Bullock carts would ply and so roads were built. Cities like Harappa were very planned with straight roads, good sanitation system, strong houses etc. In all these developments, civil had the most significant part to play. Unknowingly, man at that time gave birth to civil engineering.



Civil Engineering involves planning, designing and building houses, buildings, dams, bridges, roads, managing water resources, land resources, soil formations etc. The above-mentioned things are vital for human existence and comfort. Without managing them, no country can progress.

When India became independent, Pt. Jawaharlal Nehru recognized the need for civil engineers and encouraged students to opt for it. At that time, India had no infrastructure to speak of. Throughout 1950s and 60s civil engineers helped in building dams, bridges, power plants, airports, sea ports etc.

Civil engineering has a number of branches. Water engineers have taken up the challenge of maintaining the huge water resources. They have

helped in planning of dams, irrigation systems, seaports etc. They also help in predicting the consequences of floods. Geotechnical engineers study the land use pattern as well as soils at various places and categorize them as good and bad. Hence, they help in preventing structures from collapsing due to soil movements. Structural engineers play an important role too. They are responsible for designing structures so that they do not collapse. All man made structures in the country have been erected as a result of the efforts of civil engineers.

Civil engineers of our country are also involved preparing maps. They have surveyed the entire country and prepared local, regional and national maps. They have also been involved in calculating the quantities of water in our rivers and lakes. These calculations help in prediction of floods in a region. one of the few countries, which has the capability of making and launching a satellite. Our nation can be classified into urban and rural India. For it to move forward, rural India has to progress. For this, roads, bridges, proper sanitation and many other things have to improve.

Civil engineers are also involved in weather forecasting. They process data from satellites and predict climatic conditions such as rainfall, cyclones, snowfall, hailstorms etc. Oil exploration is another area where civil engineers play an important role. They study the soil beneath the earth and based on that, they predict

the presence of oil fields. Since oil is a resource of nation priority, their work in the field has become very important.

Civil engineers of our country have been responsible for building aircrafts, helicopters, tanks, missiles, ships, satellites, etc. all of which are essential for national security. Very few countries make them indigenously and our civil engineers have helped India to join that list. India is also one of the few countries, which has the capability of making and launching a satellite.

Our nation can be classified into urban and rural India. For it to move forward, rural India has to progress. For this, roads, bridges, proper sanitation and many other things have to improve.

Transportation between villages and cities has to improve. This will lead to better movement of goods across the country, which will boost our economy. In all this civil engineers play an important role. Urban India is rapidly progressing and must continue to do so. For this better power and sanitation arrangements, better traffic management is needed which can be achieved by utilizing the expertise of civil engineers.

Civil engineers play an important role in improving the agricultural output by studying the soil properties and then helping agricultural scientists which crops should be grown. In the proposed interlinking of rivers' project, civil engineers will play a crucial role in conducting the feasibility study and the impact of land on our environment.

Civil engineers have played and are playing an important role in developing hydroelectric power plants, which provide both power and water to our industries, thus helping in boosting the economy.

Environmental engineers are responsible for studying the effects of human activity on environment. They make sure that industries comply with emission norms and also suggest ways to reduce pollution.

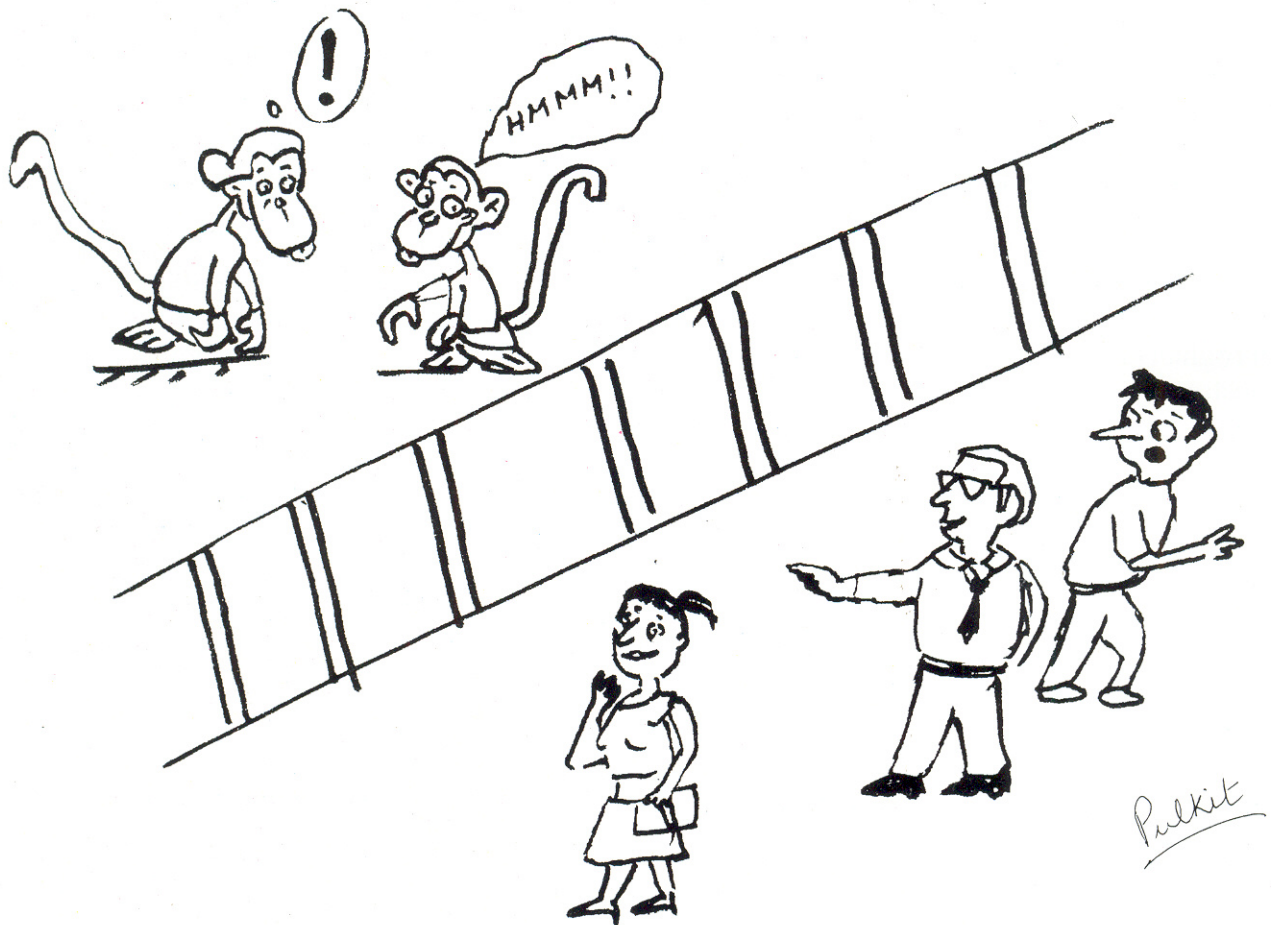
Civil engineers are also responsible in cutting edge research work in strength of materials and improvement of construction materials such as cement, concrete and bricks. These researchers are involved in making new substances, which can be used as construction materials.

We thus see that the work of civil engineers in our country has been tremendous which has influenced and improved every sphere of our life.

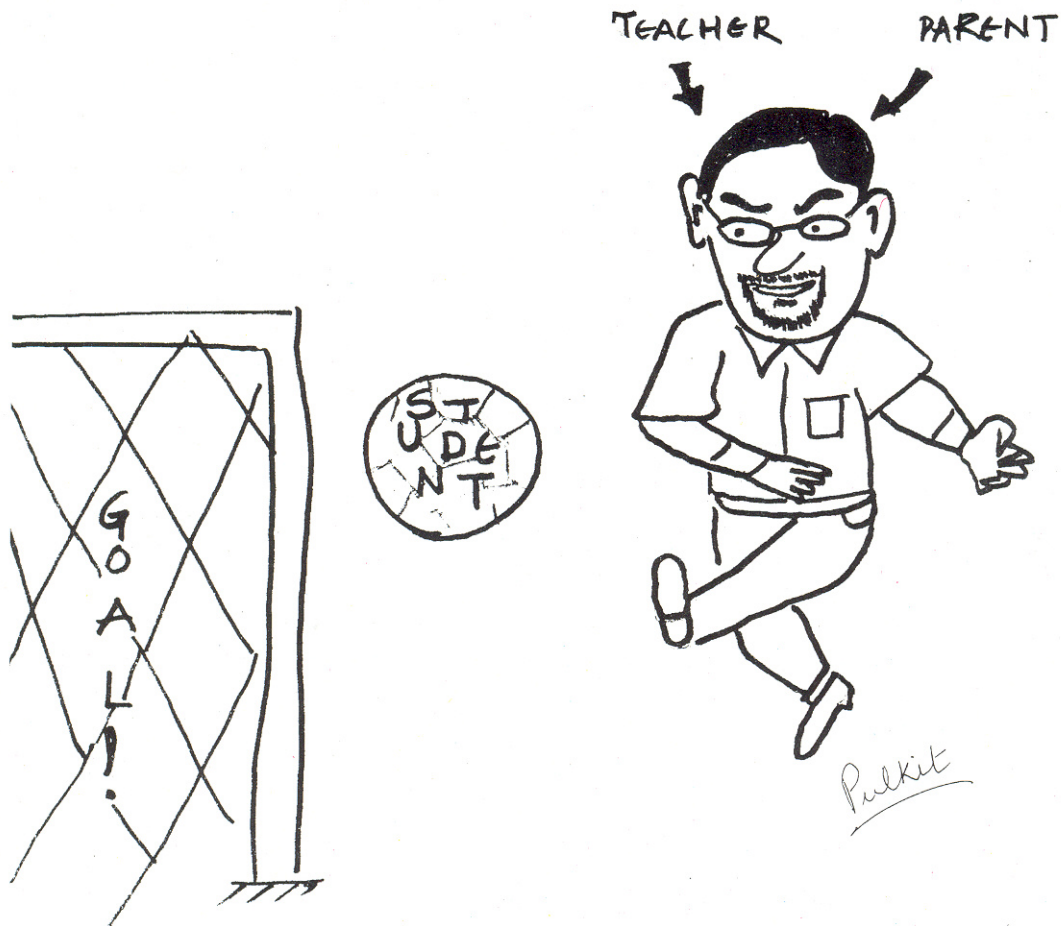
Nikhil Malhotra
Class of 2006

COOL DEFINITIONS

- (1) **ENGINEERING COLLEGE:**
A place where 'Papa' pays & 'Kaka' plays.
- (2) **TEENAGER:**
A person who stops answering questions and starts questioning the answers.
- (3) **INSURANCE:**
A plan that keeps you poor all your life so that you die rich.
- (4) **HOSPITAL:**
A place where nurse wakes you up to give you a sleeping pill.



- (5) **ZOO:**
A place devised for animals to study the habits of human beings.
- (6) **LIBRARY:**
An area to gossip peacefully in silence zone.
- (7) **EXPERT:**
A person who helps you go wrong with confidence.



- (8) **DIPLOMAT:**
A person who tells you to go to hell in such a manner that you start packing for the trip.
- (9) **STUDENT:**
A football kicked by teachers and parents towards the goal.
- (10) **CONFERENCE:**
When a lot of people who can't do anything on their own meet because they think they can work wonders together.
- (11) **TIME:**
Nature's way of preventing everything from happening at once.

S.Anuradha
Class of 2007

Our Nation's Independence - and what it means to me

Vande Matram ! a cry that blazed through the heart and soul of every Indian - a cry that fired the thoughts and actions of all the people of Bharat. Seldom have such few words meant so much to so many. '**Hail My Motherland**', was the totality of the public's feelings.

To me today, it still means a lot. It is a reminder of the torturous paths that our freedom fighters had to take, to liberate us from the foreign yoke, and of all the blood that was shed to fight the British might, of all the happiness sacrificed for happiness in the future.

Independence, which we acquired half a century back, is just another term for the responsibility that came as a part and parcel of our victory against the odds. We got our freedom in 1947, but we also lost our excuse to hold the British responsible for our sufferings. With the combination of happiness and hardships that we inherited for ourselves, neither can one consider it an entirely wonderful thing to happen, nor can one say that nothing positive came out of it. It was from here onwards, that we made our own destiny and chose our own paths.

The horrible riots that resulted from the partition of our nation into 2 separate lands, showed how raw and immature we were at that time, not ready to make decisions for ourselves. The British took advantage of this when they encouraged the leaders to divide the nation. The communal disharmony that was caused, is felt now more than ever.

But now, what we can do for ourselves, we could never do when we were under the British. A person is free to follow his dreams and his heart. Indians could only live as farmers or labourers or maybe, be in the service of the company, but not any more.

Now, we run our country ourselves; all the civil servants that run the nation, all the doctors who save the ailing, all the teachers who prepare the citizen of tomorrow, they are all our brothers and sisters and fellow Indians. People who may have come from very humble backgrounds, have made a name for themselves because of their perseverance, that bore fruit in modern India. Side by side, we are advancing in the technical and professional fields by leaps and bounds.

But on the flip side, we see that a very large portion of our country's people is still unemployed, illiterate, starving and begging. The economic destruction that we suffered at the hands of the British during their rule, led to serious problems we faced after independence, especially since being separated from what are now Pakistan and Bangladesh. We still haven't recovered entirely from the economic disintegration. While there are many Indians who are rich, successful and well-off, the real picture of the Indians is that of a weak, frail man, who walks up to your car, lifts up an amputated hand and takes God's name for a rupee or two to satisfy his hunger... who eventually dies in the harsh cold of the winter or the heat of the summer because he allows himself to get lost in the circling streets of the big city, after leaving his village in the hope of a better life.

On the political front we see what we have seen for ages, chaos. The disharmony and aggression, that marks all the political scenes, bred out of an inherent distrust in other groups of people. The groups may be religious or otherwise, like those of people with different views on national and international matters. It seems that there can be only one or the other, but not a cohesion of different ideas and people. Now that is understandable, but only to a limit, unlike India, where we see politicians throwing mikes at each other. Their ideology in a nutshell is "**This town ain't big enough for the both of us**".

But, we have also seen leaders who have shown the way to righteousness, to not only us Indians but have inspired people the world over, with their qualities and determination to stand by what they believe in.

Mahatma Gandhi, the father of the Nation, mesmerised the whole world by his message of non-violence, even after the brutalities doled out by the British upon our people. The naked bravery of the people, who walked into open gunfire with no weapon, but a slogan of freedom on their lips, is rivaled by few. Another great leader, **Netaji Subhash Chander Bose**, showed that we could use an equal force against the enemy, if ever need be.

This shows that we are tolerant, when required, but do not shy away from a match of strength either. The list of great leaders who have showed courage under fire is unending in Indian History. Frankly, India is here to stay. We have the strongest possible history, that is our pride and a present that is not too enviable, but which seems to be going places. We have produced some of the greatest people, that the world has ever seen and the likes of which we will not see for a very long time. We have produced leaders in every field, except may be those that run our country.

India, is thus a kaleidoscope of different places and people, a variation of the colours of nature, of the concrete jungle, of skin and of minds, and these colours couldn't have been so vibrant, had we not been independent.

I would like to sum up my speech by quoting a few lines —

Let no more

The ugly scares of war,
mar the beauty of our Land

Let no more

The Stains of blood,
redden our hands

Let no more,

the grim horror of destruction,
haven't a hopeful tomorrow

Let no more

mankind reel under
a perpetual flood of sorrow

Let no more

The songs of love and peace
Be a dream unfilled.

AH, BUILD YOURSELF, A WORLD ANEW !!

Megha Rastogi

B-34/2K4

Information Technology

COWARDS DIE MANY TIMES BEFORE THEIR DEATH

This famous quotation occurs in Shakespeare's play "Julius Caesar" as a part of speech by Cæsar in reply to Calpurnia's warning that he should not move out of doors as evil omens predicted some danger to his life. Caesar refuses to be perturbed by the portents and declares that DEATH has no terror for him. He is able to rise above cowardice because he ignores the danger that threatens him. The word 'fear', he says, doesn't exist in his vocabulary. He throws a challenge to death and refuses to be frightened by it. He could never have been a great soldier if he had stood in fear of death.

Caesar's attitude to death, is indeed, the right one. *Death is a necessary and inevitable end to life.* Nobody has ever conquered death. It comes to all kings and beggars, rich and poor, princes in their palaces and paupers in their huts. Death lays its icy hand upon all creatures without discrimination. Knowing the omnipotence of death, it is the height of folly for a man to tremble with fear at its thought. It shows an upper lack of spirit to turn pale at the mention of Death. *It is extreme cowardice to shrink from the dangers of life and a mark of bravery to face them.*

A COWARD lives in constant dread. His heart sinks at the prospect of death which is like a Sword of Damocles hanging over his head. The outbreak of war, riots, the tremors of an earthquake, the prospect of famine or flood — all makes a coward shudder because he thinks he will be the first target for these instruments of Death. He eats his food with suspicion — for it might be poisoned. If he stands on a sea shore or a river bank, a wave of fear sweeps over him at the idea of being accidentally drowned. As he walks along the road, he is over careful not to step down from the pavement lest he should be run over by a minibus. He knows that death pounces suddenly upon a man, in variety of ways and hence, his life is a continuous nightmare. Every time he hears that someone has died, he secretly congratulates himself on his escape.

A coward surely suffers, a thousand times more pain and agony at the imaginary prospect of death than by the event itself. This is because, he meets his death many times in imagination and endures all the horrors connected with it. He even goes on to imagine the sufferings that are in store for him beyond the grave.

A BRAVE man, on the contrary, maintains an attitude of defiance towards death. He realizes the fact that Death must come — sooner or later. It is of no use to deny this fact as death is an essential part of the scheme. This gross flesh must someday become a cold, insensitive and lifeless stock. It is therefore in vain to pity oneself at the thought of Death. Besides, with courage and resolution, one may well evade death many a times.

Death is not a frightful monster. It is only a natural consummation of life. It is true that premature death is often tragic and it is the prospect of dying before the time that strikes horror into the hearts of most of the people. But then, if one is to die, then no complain or self pity can alter the fact. No one can foresee accidents, epidemics or famines. It is therefore meaningless to go about in perpetual fear of the evils that may happen. Rather one should persevere the attitude of tranquility and serenity in the face of both good and evil, as was adopted by the two great men—Saint Stephen and Jesus Christ. Saint Stephen was seized by the most hostile and frenzied prosecutors who weren't in control of their actions and emotions and ordered him to be stoned till death. But in his last breath, he said, "Lord ! Do not punish them for this Sin." Jesus Christ, during his lifetime, was taunted and abused by many antagonists. He was crucified — an ignominious Roman death — reserved for criminals. But even then, just before dying, he said at his tormentors, "Father, forgive them for they do not know what they are doing" This according to me, is the real bravery, the right attitude to tackle suffering and adverse times.

Instead of being frightened, one should adapt the ability to remain calm and composed at the arrival of the calamity or the occurrence of the worst of the events. Though it may sound very theoretical, but mind it, it is

not as difficult as it seems. So, Be BRAVE ! come ahead to move on the path that leads to the ultimate destination of all, without hesitation.

Death is to an end, it is a new beginning Cowards are not just those who are afraid of death. Their are people who are always worried about future and moaning over the past. They are afraid of failures. For them, H.W. Long Fellow, in his famous poem "Psalm of Life" has given the apt Suggestion.

"Trust no future, however pleasant
Let the past, bury it dead
Act, in the living present,
Heart within and God Overhead"

To eradicate this fear of failure is nowever, not a big deal. Just keep in mind.

"Heights by greatmen reached and kept
Were not attained by sudden flights
But while their companions slept,
They were toiling up, through the night."

So, " Let us then be up and doing
With a brave heart for any fate
Still achieving, still pursuing
Learn to labour and to wait."

I thus suggest, live the life before it is too late. Stop fearing death, as it will embrace you, if not now then some other time. But, don't accept defeat, fight till the end. To conclude, I would like to say,

Death is inevitable,
Neither you nor I can escape !
But we can surely stop trembling,
And give our life a better shape,
Fear of the fear, is the greatest fear,
Shed it at once, at once my dear,
Let us make a wise decision.
Remove cowardice from soul, with precision.
For I don't want to die again & again
That would only worsen the pain
So, I resoulte, I'll be really brave
Till I slide down, in my grave.

Rachna
Class of 2008

SPORTSMAN'S EXAM

- (1) **CATCH OUT:**
Caught by the invigilator while trying to pass a chit.
- (2) **WIDE BALL:**
A question out of course.
- (3) **MAIDEN OVER:**
Required to give the answer of six questions in serial order, not knowing any of them.
- (4) **L.B.W.:**
Failing in exam because students in front of you did not do well.
- (5) **STUMPED:**
Continuous disturbances from back student in order to let him see your paper.
- (6) **NIGHT WATCHMAN:**
Father keeping watch on his son at night while he is preparing for the exam for next day.
- (7) **BAD WEATHER CONDITION:**
Invigilator not leaving the examination hall even for a second.
- (8) **BOUNCER:**
Most difficult question.
- (9) **RETIRE HURT:**
Fainting in the examination hall on looking at the question paper.

S. Anuradha
Class of 2007

THE BEAUTY OF AL-QAEDA

Who amongst us would favor Bin Laden for the anti USA movements initiated by him, well, I do! And today I have an opportunity to justify my views to all.

The point here is that who raised Al Qaeda, who supported it and finally who after emerging as a super power, at last suffered? The answer, unfortunately, is common to all, The United States of America. The USA would never have imagined that the weapons it supplied to Al Qaeda, to stamp its dominance, would be pointed at itself one day.

Why did the USA initiate the formation of Al Qaeda? The USA was apprehensive about Russia's and other Middle Eastern countries' steady progress and wanted to hamper it anyhow. This laid the foundation stone of Al Qaeda and the surfacing of today's greatest terror, Bin Laden.

The formation of Al Qaeda dates back to approximately a decade ago when it began as a small group of militants. Realizing the success of this organization the USA secretly supplied men, money and weapons to it. The members of Al Qaeda were trained and were taught how to use these state-of-the-art weapons. They began to live a life better than their means could provide and thus Al Qaeda attracted youth class. Secret hideouts were made in the caves of the Tora Bora Mountains. Highly sophisticated technology was used to maintain the oxygen levels in the caves. Facilities in them were better than a five star hotel and they had food stock enough to feed a hundred men for two months. Now I ask, could this all be done without the aid of a super power? Can a small group of militants spread actively over so many countries in a short span of ten years, certainly not!



The Al Qaeda hit the roots of a nation's progress by spreading terrorism amongst the masses, this instilled fear in them and thus everyone hesitated to put a step forward, but this was all done under the influence of USA. Apparently the motives of the USA were being fulfilled and Al Qaeda was a mere puppet in their hands.

Bin Laden realized this very fact and he came to know that he would gain nothing out of it. The basis on which Al Qaeda was formed i.e. the Muslims would gain an upper hand in the society, would never happen and his everlasting dream would never come true. This was the spark that set the fire of revenge in him and he backfired.

He had now got nuclear power and practiced that tactics taught to him on USA itself. He is the only person till date who single handedly challenged USA and gave them shivers down the spine. The diplomats of USA are guarded by soldiers 24 hours a day and have become prisoners in their homeland and therein lies the beauty of Al Qaeda.

Abhishek Agarwal
Class of 2007

Convergence of civil and polymer engineering

We have covered a lot of distance since the time of the first initiation of human intelligence into the field of engineering starting of as civil and military engineering. Now there hardly exists a line of difference between the two. The humble manmade streams of agriculture have given way to the mighty Suez and the Panama canals. The horse riding cavalries of the past has made way for the tank borne and the airborne cavalries of the present. And in the name of polymers we only don't think of natural polymers but also of artificial ones like the polyesters.

Strangely enough we have not give enough thought to the application and confluence of civil and polymer. If properly applied we will find that they can be highly useful in the field of pre fabricated structures. The use of concrete pre fabricated structures is very prevalent today. The present use of bricks and mortar or wood in some cases has far outlived its potential. Today they only add to the problems of environmental that exist . Besides they dno't add more punch to the economic and military might of a country in the present strategic scenario.

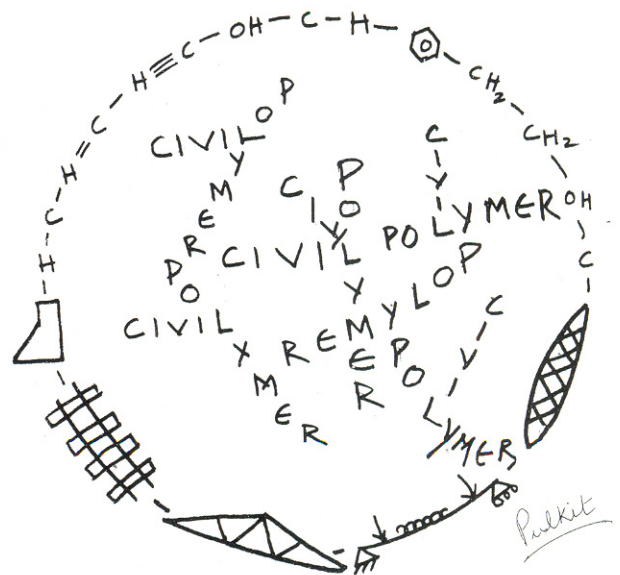
To highlight my point I am going to quote some arguments now.

The Israeli army is already using special mortar proof nets. A closer look reveals that they are essentially made up of artificial polymers. These are basically condensed onto the primary skeletal network of Ti metal. And these are effectively bouncing off the high explosive mortar shells that the Palestinians tend to use liberally.

Beside this we can concentrate on another aspect of this field. The use of artificially manufactured spider's silk, after it has been successfully analyzed, will go along way towards the reduction of pollution from construction of buildings. These polymerized pre fabricated structures will have greater strength than the present day concretes in use. Besides this they will provide a better-suited environment towards the sustaining of the strength of the carbon fibers and the metals that are going to be used in the reinforcement of these structures.

The use of these polymer parts is being already done in earthquake prone regions as these along with wood reduce the overall weight of the structure thereby reducing the chances of injury to the inmates in case of a major house collapse. Also these structures will stand for a long time, as they will have natural resistance to the corrosive agents that are present in the atmosphere. This fact is borne out by the use of fiberglass and silicone paints on vehicles

The greatest use is going to be the fabrications of bunker walls that are able to bounce off radar beams from the bunker buster missiles, which are quite lethal today. The use of these coats on the battleships and planes will make them invisible to the radar as well. Although such planes and ships exist today they have inorganic coatings that are quite difficult and costly to maintain. These and several more uses in this field really make it worthwhile for a study. So let us really look into this and do our best so as to tap this reserve



Shashti B. Bannejee
Class of 2007

Straight from a fuchchee's mouth

"So, all set for college?"

"Yeah"

"Are you planning to board?"

"Yes"

"You are doomed!"

This was, in a nutshell, my conversation with my cousins. College, I'd expected, would be heaven compared to the jailhouse that school sometimes seemed to be. Here we can come and go just as we please, attend as few classes as convenient and as many as necessary, and practically do whatever we wish to. However, with my entire family wetblanketting my hopes; I decided to hope for the best and prepare for the worst-case scenario.



First day of college — ah, so exciting and yet so perilous! I decided to be careful and follow the so-called dress code right from the beginning; thanks to a friend's warning. And since asking for directions was a sure shot way to convey to the other person that I was a fresher, I spent hours wandering around trying to locate other freshers in my group and avoiding those who walked swiftly and knowingly (read seniors). Having finally found them, we decided to step out for fresh air only to end up being caught by seniors. And so began the ordeal of giving my 'intro' in English and in Hindi, singing umpteen songs, reciting nursery rhymes with actions, acting out scenes from movies and not to forget the "homework assignment"- finding out the Hindi translation of technology, engineering etc. (?). I practically spent the first week dodging away seniors whenever and wherever I spotted them.

The first few days in the hostel were far from my expectation. The very first night I came to know why hostellers appeared to sleep all the time. If somebody burns the midnight oil drawing posters or completing assignments for the higher authorities, she wouldn't be in a position to keep her eyes wide open. The calls of "All fuchchees in such and such room" hung like sword(s) of Damocles over my head. As the situation demanded, I'd pretend to be an expert who knows everything about nothing. Sounds clichéd, but it was the best option to get myself out of unforeseen scrapes. On Fresher's Night, Type V shall know peace.

But nobody (as yet) has injured his/her eyesight from looking on the brighter side of things, and I gradually began to enjoy it all. On the eve of Mismatch day, every fuchchee, mind you, every one of them, was engrossed in her eternal quest for picking out the right combination and a flourishing trade of dupattas and kurtis ensued. (If I let any more cats out of the hostel's bag, I'll be flayed alive) After the initial bouts of 'interaction', the better side of the seniors showed up. They informed us (the freshers) about the ins and outs of college, the teachers, helped us with our assignments, ED sheets, files and other work.

The plethora of activities in DCE where there is an opportunity for everyone- be it a fresher or a senior, the events-technical as well as cultural and the enthusiasm shown by people, all these factors were amazing. The very fact that all the societies were managed by students, unlike in school where this privilege is limited only to the teachers, makes school life pale in comparison to college life. The stringent school rules and the incessant speeches about discipline make the freedom of college even sweeter.

College is not just about getting a fabulous degree, it's about knowing where we stand in life, it's a platform for elevating our personalities to higher levels of development and in some cases reinventing ourselves completely. I think it can be safely said that

COLLEGE IS GREAT FUN.

Preeti Bhargava
Class of 2007

CATECHIZE

Take this general quiz and test your knowledge : (26 questions)

Q1: Who was assassinated by Sirhan Bishara Sirhan?

Q2: Which award derived its name from a nickname for the image orthicon, a camera tube used in television?

Q3: Which of the Sikh gurus was born in Patna in 1666?

Q4: On what occasion did Warren Buffet write a memo to Berkshire' Managers and associates estimating an insurance loss of \$2.2 billion in one day?

Q5: He was a school drop out, earned his first income by selling snacks to pilgrims, and later rose to be the owner of a whopping Rs. 60000 crore empire. Whom are we talking about?

Q6: Who became the first goal keeper to win the golden ball award for a FIFA world cup final?

Q7: The radius of what is known as the event horizon?

Q8: Which company did Hakim Hafeez Abdul Majeed set up with a name that signifies 'sympathy for all'?

Q9: The name of which Japanese company comes from the two Chinese words meaning 'sun' and 'rise'?

Q10: Who wrote the national anthem of Bangladesh?

Q11: Which city was the first to hold the modern Olympic Games twice?

Q12: In which gulf state is Al Sabah the ruling dynasty?

Q13: Traditionally who wears the 'fisherman's rings'?

Q14: Who was the first Indian prime minister who did not face parliament?

Q15: In which country are the remains of the ancient city of Troy located?

Q16: Which Indian king did the ancient Greeks referred to as 'Sandrocottus'?

Q17: The logo of which US IT giant is a representation of the Golden Gate Bridge of San Francisco?

Q18: Which company was formed when the Tata group took over the business of the Swiss trading firm Volkart brothers in India?

Q19: The name of which form of pasta means 'little worms' in Italian?

Q20: Which comic character is the protector of Gotham city?

Q21: What is the name of the world's first postage stamp?

Q22: Which is the most populous city in the world?

Q23: Who was the first viceroy of India?

Q24: Who was the first man to walk in space?

Q25: In 1952 who captained India to its first ever test victory against New Zealand?

Q26: In 1727 who became the first scientist to be buried in west minister's abbey?

(Look out for answers to 'Catechize' in the coming pages)

Compiled by: PULKIT
2k2CE444

DEFT DEFINITIONS & COOL MEANINGS

THE 'FOOL' BOND 007 =



1. Cigarette: A pinch of tobacco rolled in paper with fire at one end and a fool at the other.
2. Love affairs: Something like cricket where one-day internationals are more popular than 5-day tests.
3. Marriage: It's an agreement in which a man loses his bachelor degree and a woman gets her Masters.
4. Divorce: The future tense of marriage.
5. Lecture: An art of transferring info from the notes of the lecturer of the notes of the student without passing through the mind of either.
6. Conference: The confusion of one man multiplied by the number present.
7. Compromise: The art of dividing a cake in such a way that everybody believes that he has got the largest piece.
8. Tears: The hydraulic force by which masculine willpower is defeated by the feminine waterpower.
9. Dictionary: A place where divorce comes before marriage.
10. Conference room: A place where everybody talks, nobody listens and every body disagrees later on.
11. Ecstasy: A feeling when you feel that you are going to feel, a feeling you have never felt before.
12. Classic: A book which people praise but do not read.
13. Smile: A curve that can set a lot of things straight.
14. Office: A place where you can relax after a strenuous home life.
15. Yawn: The only time some married men get to open their mouth.
16. Etc.: A sign to make others believe that you actually know more than you do.
17. Experience: The name men give to their mistakes.
18. Atom bomb: An invention to end all inventions.
19. Committee: Individuals who can do nothing individually and sit together to decide that nothing can be done together.
20. Philosopher: A fool who torments himself during life to be spoken of when dead.
21. Diplomat: A person who tells you to go to hell in such a way that you actually look forward to the trip.
22. Opportunist: A person who if accidentally falls into a river starts taking a bath.
23. Optimist: A person who while falling from the Eiffel tower says mid way "Look I am not injured yet."
24. Pessimist: A person who says that the O is the last letter in the word "Zero" than saying that it is the first word in "Opportunity".
25. Miser: A person who lives poor so that he can die rich.
26. Father: A banker provided by nature.
27. Criminal: A guy no different from the rest of us.... except that he was caught.
28. Boss: Someone who is late when you are early and early when you are late.
29. Politician: Someone who shakes your hand before election and your confidence after it.
30. Computer Engineer: One who gets paid for reading such mails.

Dreams - an unsolved mystery

Not only do dreams offer a private means to explore inner reality and to gain unique, undeniable, personal experiences. There is also overwhelming evidence that they can be used to improve waking life. "Dreams offer opportunities for fun, adventure, wish fulfillment, creativity, deep personal insight and healing, and all this at no cost and with no line-ups! Why do we dream and just what ARE dreams, anyways ?

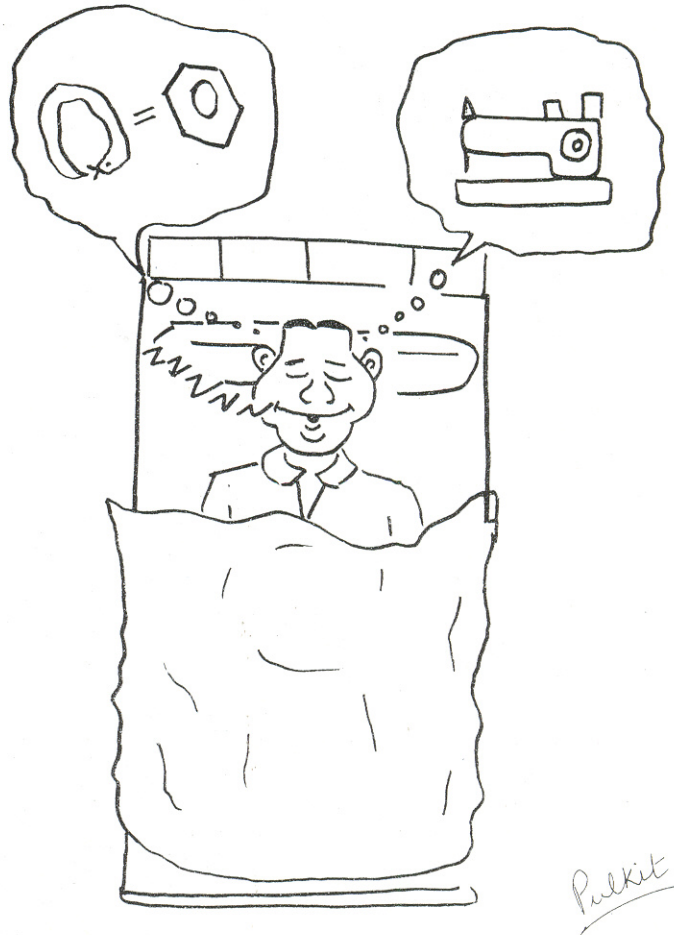
Scientists are still debating this guess they haven't figured out what most of our brain capacity is used for, much less what dreams are or why we dream...so they'll be busy on this one way past our lifetimes! Yes, there may be many theories...but nothing is 100% scientifically proven. Dreams have been considered very important in many cultures and spiritual belief systems. Meanwhile, although everyone has a different opinion, it is up to the individual to decide what dreams may mean to him or her specifically.

Your dreams are about you. That means every character in your dream is a reflection of you and not anybody else. Your dream about your boyfriend/girlfriend cheating on you is not about your boyfriend, but tells you something about how YOU feel about your boyfriend...if his character cheats on you in your dream, then it's about your fears or suspicions. Again: every character is a reflection of YOUR feelings, YOUR thoughts, YOUR desires, and YOUR fears. Only you can figure out what these characters mean to you in your dreams. Remember that everything in your dreams and nightmares are all about YOU and how you feel about things related to the other people you are dreaming about, and you'll be well on your way to understanding your dreams.

Let's talk about nightmares as well. The best way to understand why we have nightmares is to think of nightmares as an early warning system or an alarm that alerts us that something is wrong in our lives and is hurting us, and we need to focus our attention on it fix the problems so we can overcome them and be happier. At first the nightmares on these issues are a shock but as we get used to the issues they are pointing out and change our perception, the nightmares lessen in their severity and we achieve a sense of inner peace or calm.

You can learn helpful techniques for conquering your nightmares by finding information on dream symbols and learning how to interpret your dreams.

Recurring dreams are similar to dream themes, except that in dream themes the dream itself can change, while in a true recurring dream or nightmare, the dream narrative is always the same or nearly identical. This is pointing out something very important for you to "get" and understand, and usually recurs during triggering events in your life that the dream represents. What seems like a nuisance or unpleasant nightmare is really a helpful signal to you that there is an issue that's deeply bothering you and needs to be brought to the



surface and fully healed. Once this is done, the recurring dream will either evolve or disappear from your dreams altogether. If you find the dream or nightmare getting WORSE instead of better, you are getting a stronger message to correct the issue it represents before it becomes a much bigger problem in your life.

Dreams can be a valuable problem-solving tool. The tale is now famous of how, after an embarrassing slump, golfer Jack Nicklaus claims to have solved a problem with his golf swing within a dream, which subsequently improved his game by ten strokes — overnight ! There are undoubtedly plenty more undocumented examples spread over history, but some well-documented ones include the dream-inspired experiment and resulting discovery of the chemical mediation of nerve impulses by Otto Leowig, which won him a Nobel prize, Elias Howe's discovery of the sewing machine, many of Thomas Edison's inventions and Friedrich Kekule's discovery of the structure of the benzene ring from a dream where he saw a snake swallowing its tail.

Dreams have long proven to be storehouses of creativity and may in fact be the well from which imagination springs. A few example dream-inspired works are The Beatles' well-known hit "Yesterday", Samuel Taylor Coleridge's famous poem "Kubla Khan", Robert Louis Stevenson's "The Strange Case of Dr. Jekyll and Mr. Hyde". Other artists who credit dreams as a source of inspiration include composers Sting, Peter Dinklage, Robert Palmer, Mozart, and Beethoven, poet-painter William Blake, painter Paul Klee, and screenwriters Judith Guest and Ingmar Bergman, to mention but a few. Dreams are also beginning to be used in this regard for improving business, and professional performance.

In dreams rules of society no longer apply, and many of the apparent blocks set by age, sex race or religion simply fall away. In dreams we can be the heroes of our own adventure, find romance, fly, travel through "solid" objects, breathe underwater, and perform feats free from embarrassment, peer pressure, monetary limits, and even physical handicaps. The boundaries of imagination are the only limits. Dreams have access to information above and beyond the physical senses, both in terms of geography and time. Exactly how this is possible is an extremely interesting question. Here are a few examples to prove this.

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Catholic Bishop Joseph Ruffini dreamed of the assassination of the archduke of Austria, Francois-Ferdinand de Habsbourg. In vain, he tried to reach the archduke to warn him of the assassination, which occurred June 28, 1914 in Sarajevo—the event that triggered the First World War.

A few days before his assassination, American President Abraham Lincoln, who was very attentive to his dreams, dreamt of his own corpse laid out in a room in the white house.

A day before the Titanic's demise, a woman on the infamous ship dreamt of the horrible event that was to occur the next day. She told her husband, who scoffed at her worries and ignored her pleas. However, the dream so affected her that she secretly prepared herself the night before and had all her children sleep in their warm clothes in order to be ready at a moment's notice. During the night, when the ship struck the iceberg, she and her children managed to escape and be rescued. Her husband, sadly, went down with the ship.

So instead of wishing you sweet dreams, which you've heard many times before, I will go one step further, with your greatest fulfillment in mind, and wish you truly pleasant nightmares.

ANSWERS TO CATECHIZE

1. Robert F Kennedy
2. Emmy
3. Guru Gobind Singh
4. September 11 tragedy
5. Dhirubhai Ambani
6. Oliver Kahn
7. Black hole
8. Hamdard
9. Hitachi- hi=sun, tachi=rise
10. Rabindra Nath Tagore
11. Paris
12. Kuwait
13. Pope
14. Charan Singh
15. Turkey
16. Chandragupta Maurya
17. MSN
18. Voltas
19. Vermicelli
20. Batman
21. Penny black (British), 1840
22. Tokyo (27.5 million, approx)
23. Lord Canning
24. Alexei Leonov
25. Vijay Hazare
26. Isaac Newton

RATE YOURSELF :(4-8:O.K, 9-14: Good, 15-18: Excellent, 19 and above: Quizzing wizard)

To Sir with Love

Reincarnation ?? If that's the word... No 'resemblance' is the word I decided but so much & how. I still remember entering into his class for the first time. My mind must have been playing tricks on me or it was my eyes, I looked amazed at our new teacher. Old he was, too old I thought to be teaching (later I found out he had been retired long back), though weak by the body yet strong of the spirit. He was a cheerful soul with an immense calm over his face. He was Sir A.K. Roy, our beloved & respected. And he looked just like my grandfather.

In that one hour. While he taught the class, my eyesight hazed & some distant images swarmed around me in a pool of memories. After a while, it was hard for me to tell which image was for real. I was caught between a world, that had been and that was no more, a world in which I could in real see my grandfather, and another world which was the now, in which my grandpa had returned to life as Sir A.K. Roy.

Yet there was this vacuum and a period of 8 months which made it both painful & blissful for me to believe my eyes. Then again bliss & pain are so entangled that it's hard to separate the two in real sense.

At the end of the class I talked to Roy Sir, I wanted to sit down and converse with him for a long time but all I could manage to say was, "you look like my grandfather, Sir!" I don't remember his words but I remember his smile & the joy which filled my heart in his presence. After a long time, I was happy.

But wait, A.K. Roy Sir was not just a person who reminded me of my lost beloved. He was much more than that, a lot of himself I would say because after that 1st day I don't remember missing anyone of comparing him with anyone. Sir himself was such a wonderful person to have around. A teacher most respected and loved in the hearts of hearts. And why not, he was a teacher unmatched by any other in his ways. In colleges where teachers only call the toppers by their names, he was a teacher who not only knew your name but also your friends and a lot more that there is to you beyond your roll number.

His spirits were ever high, his tempers always low. He was a man beyond the rat race of this materialistic world and that's why he bore a smile whenever you see him, his eyes ever lit with lots of positivity. Humbleness and honesty would have been his pets and you'd never see him frown. A person who loved studying, loved teaching and loved learning and for all the same reasons & more he was loved by his students. It was hard to believe that such a man existed in today's world untouched by the grey shades of corruption & lust of money.

I remember him talking to one of my classmates who had been placed for a package of 4.5 lpa. "What would you do with all that money?" It's too much isn't it? He had remarked in his ever humble, polite manner. Ask anyone of us and we'd find a lot of ways to spend even ten times the same money but for Sir Roy it was but a luxury that didn't appeal to him.

I used to come across him a lot of times in the corridors of electronics & electrical block. And everytime I met him, he would find me smiling, as if I was having the time of my life and he would remark as often as he could, "always smiling huh parul", or sometimes, "parul ko kabhi tension nahin hoti" infact those weren't the cheerful days or the best of my time but seeing him always made me so happy that no matter what the mood, sir would always find me grinning ear to ear. That powerful was his presence on me, a joy unmatched by any other, a contentment which is but inexplicable.

Everything I remember about him gives such a pleasure & strength to my mind because his mere presence was inspiring except for the day at the end of last year when I learnt that he was present with us no more.

And like at such times you always want to believe it a lie... it wasn't. A condolence meeting was held in the very room where I sat unaware of the grave fact moments ago. Students came one by one in front to speak

about our beloved teacher and pay him reverence. I didn't because I couldn't speak it even became painful to sit in that room and listen to all that grieving. At that moment a girl sitting behind me asked, "why are you crying?" I felt like reminding her she wasn't in a seminar but I decided otherwise.

Later I visited his place where he spent last of his days with his brother's family. It was a small place and his room even smaller which did not even have a large picture of his. Only a passport size picture was available to put as memento and that too was pasted on one of his I-cards. There were pages written in his small & weak script here and there.

That day I learnt two more things about him. He was a bachelor all his life and that the only possessions he had were books.

To Sir with love,
We miss you a lot
Your students forever

Parul
VIII Sem E&C

Musically Yours

By this time I knew that a guitar had Six Strings cas I owned one (Neah, not reall, I learnt that from a Bon Jovi song a little earlier) But mind you I was still not sure what the SCALE was so I must have been still messing with it, so I did not even try to sing anymore.

It is strange by the way, when I came to college, I belieued myself good at lot of things, music included, and one by one I was made to believe otherwise. And that too, to an extent that singing became something I didn't even consider anymore while I was a person who song more than she spoke. On well... in the meanwhile I tried to become a guitarist, Guitar added a lot more words to my vocab too, chords, riffs, tremelos, tablatures etc. etc...

The guitar also caused me to get acquainted with the weird but interesting rock music. There was a time when I couldn't listened to anything lighter. Iron maiden had become the paragon of muric 4 me.

Come october again & comes the ECHO once again ECHO'03 was a two day event, with the second day being entirely dedicated to rock music. And before I knew I found myself joining, the headbangers. It was great till the music played but later it become a heavy head ache.

The Genesis of Creativity - Kalakriti

Founded with the objective of bringing out the creative talents of DCEites to the center stage, Kalakriti is one of the actively working societies of DCE, promoting disciplines such as painting, photography, cartooning, creative writing and designing through regular events, not only in DCE but also in other colleges amongst a broad spectra of other colleges.

With annual events such as ATELIER-the photography workshop, INSPIRATIONZ-that included events such as product designing, cartooning as well as the annual Kalakriti exhibition which showcased the work of students in the field of art.

The society certainly, promises to bring out the creative juices of DCEites to the forefront!





हिन्दी खण्ड

स्थल गया है भर पथों से, नाम कितनों के गिनाऊँ
है स्थल बाकी कहाँ पथ, एक अपना भी बनाऊँ
राह जल पर भी बनी है, किन्तु रूढ़ि ना हुई कभी वह
एक तिनका भी बना सकता यहाँ पर मार्ग नूतन
तीर पर कैसे रूकूँ मैं, आज लहरों में निमंत्रण

‘पंत’ की इन पंक्तियों का आशय कितने लोग समझने वाले हैं यह तो मुझे नहीं मालूम और 'Reverie' में हिन्दी लेखों का अभाव देखते हुए मैंने अपनी अपेक्षाओं का स्तर भी इतना ऊँचा नहीं किया है पर चूंकि ये विषय इस संपादकीय का मुद्दा नहीं है और इस पर पहले भी कई बार लिखा जा चुका है तो पुनः अपने मूल विषय पर पहुँचते हुए मैं ‘पंत’ की उन पंक्तियों का भावार्थ बताना चाहूँगी जो जिंदगी में पूर्व निर्धारित मार्ग को छोड़कर, औरों के छोड़े हुए कदमों के निशानों के अनुगमन की बजाय, अपना एक नतीन पथ बनाने का संदेश देती है।

वैसे हम सभी के यहाँ होने का उद्देश्य कुछ नूतन, कुछ संजीत, कुछ अलग करना है पर कितने लोग अपना कार्य भलीभाँति कर रहे हैं कहना मुश्किल है। इस क्षण ‘शिव खेड़ा’ की दो पंक्तियाँ याद आती हैं ‘सफल लोग कुछ अलग नहीं करते, वे हर काम अलग ढंग से करते हैं’। और वे अलग रास्ते हमें खुद बनाने होंगे।

जीवन में सफलता की शुभकामना के साथ।

संपादक दीर्घा

आकर्षक व प्रभावशाली व्यक्तित्व

व्यक्ति समाज का अभिन्न अंग है। प्रत्येक व्यक्ति की इच्छा होती है कि वह संसार का सबसे प्रतिभाशाली व्यक्ति बने। विद्याध्ययन पूर्ण करने के पश्चात् व्यवसायिक जीवन प्रारंभ होता है। प्रत्येक मनुष्य अपनी योग्यतानुसार डाक्टरी, इंजीनियरिंग, शिक्षण, नौकरी, व्यवसाय आदि पेशा अपना लेता है। लेकिन अपने कार्यक्षेत्र में योग्यता प्राप्त होने से यह अर्थ कदापि नहीं है कि वह आकर्षक व्यक्तित्व का धनी होगा ही। इच्छा मात्र से ही कोई भी व्यक्ति प्रभावशाली नहीं बन जाता। समाज में अपनी अलग पहचान बनाने के लिए तो कठिन साधना करनी पड़ती है। अन्य गुणों के अलावा व्यक्तित्व भी आकर्षक हो तो ऐसा व्यक्ति समाज में आदर का पात्र तो बनता ही है साथ-साथ उसका जीवन भी सफल व सुखी होता है। लेकिन अपने जीवन में यह गुण प्राप्त करने के लिए जीवन के आरंभिक काल से ही साधना को कार्यरूप देने के लिए दिनचर्या बनाना आवश्यक है।

इस वसुंधरा पर प्रकृति ने प्रत्येक व्यक्ति को कोई न कोई विशेषता अवश्य दी है। इस विशेषता को प्रारम्भ में ही पहचान कर विकसित होने दिया जाए तो व्यक्तित्व में निखार अवश्य आएगा तथा प्रगति-पथ पर ऐसा व्यक्ति अनवरत अग्रसर होता रहेगा। ऐसे व्यक्ति की जीवन-शैली अन्य किसी की तुलना में भिन्न होती है। ऐसा व्यक्ति परिस्थिति अनुरूप अपने को ढालने में सक्षम होता है। सदैव प्रसन्नचित रहता है। तनाव व परेशानी उससे बहुत दूर रहते हैं। जिस कार्य को हाथ में ऐसे व्यक्ति लेते हैं उसको पूरा करके ही दम लेते हैं। बीच में अधूरा नहीं छोड़ते, न ही तब तक दूसरा कार्य आरम्भ करते जब तक पहला कार्य पूर्ण नहीं हो जाता। किसी भी कार्य का समुचित रूप से पूर्ण होना स्वयं के लिए अति प्रसन्नता का विषय है। ऐसे व्यक्तित्व वाले मनुष्य अपने घरेलू, व्यवसायिक अथवा निजी जीवन में सदा ही तनाव मुक्त, दृढ़ निश्चयी तथा प्रसन्नचित रहकर दूसरों के लिए आकर्षण का केन्द्र बने रहते हैं।

अनेक विद्याओं में पारंगत लेकिन व्यवहारिक जीवन से अनभिज्ञ व्यक्ति समाज में अपनी पहचान शायद ही बना पाते हैं। किसी व्यक्ति में धैर्य की कमी हो, छोटी-छोटी समस्याओं से विचलित हो जाये, हाथ-पाँव फूलने लगे, हर बात पर प्रतिक्रिया या असहमति प्रकट करने प्रलोभन में फँसा रहे, निश्चित है कि आत्मज्ञान, आत्मविश्वास, आत्म-सम्मान से पूर्णतः विहीन है। ऐसा व्यक्ति हमेशा कुंठित रहता है तथा अपनी इस अपूर्णता के लिए भाग्य को दोष देता है। जीवन को सम्माननीय, अनुकरणीय एवं आदर्श बनाने के लिए तो इन अवगुणों को समूल समाप्त कर अपने अन्दर धैर्य दृढ़ता आदि अनेक गुणों का विकास करना होगा जो जीवन का लक्ष्य प्राप्त करने अर्थात् आनन्दमय बनाने की पहली शर्त है।

प्रभावशाली व्यक्तित्व के धनी लोगों में अधिकतर देखा जाता है कि जिनसे उनका काम पड़ता रहता है मेल-जोल बना रहता है अथवा जिनके साथ उनकी दिनचर्या कुछ सीमा तक भी शामिल है उनसे वे बड़ी ही सहनता से संबंध निभाते हैं। न तो उनमें किसी प्रकार का वैमनस्य या पूर्वाग्रह दिखाई पड़ता, न ही किसी को इतना अधिक महत्व देते हैं कि उसके सामने उनका अपना व्यक्तित्व फीका लगने लगे। समाज में व्यक्ति का संबंध उसके प्रभाव का दर्पण होता है। अतः सामाजिक संबंध तथा उनका निर्वाह भी व्यक्तित्व सीमा अनुरूप ही होना स्वाभाविक है। ये संबंध खूनी रिश्ते हों, प्रेमार्जित हों, पारिवारिक अथवा व्यवसायिक हों सभी रिश्तों को सीमा में रहकर ही निभाया जाना चाहिए ताकि किसी भी गलतफहमी का शिकार कोई रिश्ता होकर उसमें कटुता पैदा न हो जाए।

सादा जीवन उच्च विचार जैसे गुणों को जीवन में उतार लिया जाए तो इनका आचरण जीवन में एक अलग ही उत्साह भर देता है तथा लक्ष्य प्राप्ति बहुत ही आसान हो जाती है। इनके साथ-साथ मेहनत लगन, मिलनसारिता आदि अनेक ऐसे गुण हैं जो व्यक्तित्व में चार चाँद लगा देते हैं। सकारात्मक विचारों के कार्यान्वयन तो व्यक्तित्व निर्माण को एक नई दिशा प्रदान करता है। व्यक्ति का समाज में जितने अधिक लोगों से सम्पर्क, मेलजोल बढ़ता है उतना ही अनुभव उसे प्राप्त होगा क्योंकि हर व्यक्ति की अपनी विशेषता है। नित नई जानकारी प्राप्त होती है। अपने विचारों को सबके समक्ष रखने का अवसर मिलता है जिससे व्यक्तित्व निर्माण व विकास कार्य निर्बाध गति से आगे बढ़ता रहता है, उसकी जिज्ञासा विभिन्न विषयों में बढ़ती चली जाती है। अपने विचारों का समाज में आदान-प्रदान आत्मविश्वास जागृत करने तथा बढ़ाने का सशक्त माध्यम है।

*** A अगर जिंदगी की मुसीबतों से बचना चाहते हो तो अधिकतम व्यस्त रहो।**

प्रभावशाली व्यक्तित्व केवल किसी विशेष पद, रूतबे अथवा वंश से ही प्राप्त नहीं हो जाता बल्कि इसके लिए प्रत्येक कार्य को अंजाम देना होता है। किसी ने सत्य ही कहा है कि अपना कोई कार्य करवाना हो तो व्यस्त व्यक्ति को दे दें जो अपनी व्यवस्ततम दिनचर्या में से आपके लिए समय निकाल कर उस काम को करेगा। आलसी व्यक्ति को छोटा काम भी भारस्वरूप लगेगा तथा स्वीकार करने से पूर्व ही वह कह देगा-मेरे पास समय नहीं है। कारण स्पष्ट देगा-मेरे पास समय नहीं है। कारण स्पष्ट है, उसने समय का सदुपयोग करना सीखा ही नहीं। ऐसे आलसी जीवन का क्या लाभ। यही तो प्रभावहीनता है। धरती पर बोझ है ऐसा जीवन/आकर्षक व्यक्तित्व स्वमेव नहीं बल्कि अनेक गुणों को अर्जित व अनेक कार्यान्वयन करने से होता है। उदाहरणतः एक छोटे से बच्चे को खेलने के लिए अच्छे व बेकार से दो तरह के खिलौने दे देते हैं तो थोड़ी ही देर में देखते हैं कि सुन्दर व आकर्षक खिलौनों के साथ बच्चा खेल रहा है, बेकार खिलौने उसने छोड़ दिए हैं। कहने का तात्पर्य है कि आकर्षक खिलौनों की तरह व्यक्तित्व भी आकर्षक होना आवश्यक है तभी उसकी समाज में अपनी अलग पहचान बन पाएगी। ऐसे आकर्षक व्यक्तित्व के लिए उत्तम शिक्षा, संस्कार, जनहित कार्य तत्परता, परोपकार की भावना समय का सदुपयोग, शालीनता, मृदुभाषिता, प्रलोभन रहित जीवन, वैमनस्यता व पूर्वाग्रह से दूर, सहयोग भावना, आत्म-विश्वास, आत्म-सम्मान आदि अनेक गुणों का समावेश जीवन में आवश्यक है। ऐसे गुणों से भरपूर जीवन से प्रभावशाली दूसरा कौन हो सकता है। सफलता इनके कदम-कदम पर चरण चूमती है।

उपर वर्णित विचार उन सभी विद्यार्थियों के लिए मेरा संदेश है जो व्यवसायिक शिक्षा की उच्चतम सीढ़ियों पर चढ़ रहे हैं लेकिन आज के प्रतिस्पर्द्धा के युग में उपरोक्त गुणों के अभाव में सफलता प्राप्त करने के लिए जूझते रहते हैं अथवा वंचित रह जाते हैं। समय रहते यानी स्कूल-कॉलेज में अध्ययन के दिनों से उपरोक्त गुणों को अपनी दिनचर्या का हिस्सा बना कर कार्यान्वित करते रहें तो निश्चित ही ऐसे विद्यार्थी एक दिन प्रखर, प्रभावी व आकर्षक व्यक्तित्व के स्वामी होंगे तथा उनके द्वारा ग्रहीत शिक्षा का योगदान उन्हें जीवन की सफलता के उच्चतम शिखर पर पहुँचा देगा।

केशव अग्रवाल 'रोहित'
लेखा अधिकारी
दिल्ली इंजीनियरिंग कॉलेज

शायराना SMS

सफर लंबा है दोस्त बनाते रहिये,
दिल मिले ना मिले, हाथ मिलाते रहिये,
ताजमहल ना बनाईये, बहुत मंहगा पड़ेगा,
हर तरफ एक मुमताज बनाते रहिये।

गम ना कर बादल है घनेरा,
रोके किसके रुका है सवेरा,
रात जितनी संगीन होगी,
सुबह उतनी रंगीन होगी।

भेज रहे हैं स्नेह निमंत्रण प्रियवर तुम्हें बताने को।
है मानस के राजहंस तुम आ ना जाना सताने को।।

चाँद पर माली छटा छाती तो होगी
सितारों को मुस्कुराहट आती तो होगी
आप लाख छुपाए दुनियां से मगर
अकेले में अपनी शकल पर तुम्हें हंसी आती तो होगी।

माना आप बहुत अच्छे जहीन नाजुकदिल है मगर,
बेरहम जमाने के Rules है बहुत कड़े,
Fevicole का मजबूत जोड़ लगाने की कोशिश ना करें,
इस जोड़-तोड़ में और भी बहुत है लगे पड़े।

यू तो बुझ चुका है तुम्हारे हुस्न का हुक्का
वो तो हम ही हैं जो गुड़ गुड़ाये जाते हैं।

ईश्वर का सिद्धान्त एवं आधुनिक विज्ञान

आजकल की पीढ़ी के सामने सबसे बड़ा चर्चा का विषय बना हुआ है कि आखिर में ईश्वर है क्या एक तरफ मानव चाँद, मंगल, बुध एवं शुक्र ग्रह पर पहुँच चुका है। पृथ्वी के उत्तरी एवं दक्षिणी ध्रुव एवं एवरेस्ट को ऊँची जगह पर अपना झंडा गाड़ चुका है। दूसरी तरफ वह आध्यात्मिक विकास की तरफ झुकता जा रहा है। नाभिकीय ऊर्जा पर वैज्ञानिकों ने अनेक विनाशकारी बम्बी का निर्माण किया है। दूसरी तरफ इस नाभिकीय ऊर्जा का प्रयोग मानव विकास को तरफ सोच रहा है। आजकल के वैज्ञानिकों के लिए भी चुनौती का विषय है कि जब कोयला तेल आदि सभी कुछ समाप्त हो जायेगा तब मानव कैसे पृथ्वी पर जिन्दा रह सकेगा उस समय वह सौर ऊर्जा एवं नाभिकीय ऊर्जा आदि पर ही निर्भर होगा आखिर कार कब मानव अपने विकास के लिए इन ऊर्जाओं का प्रयोग कर सकेगा।

हमारे सिद्धान्त के अनुसार ईश्वर का रूप अनेक प्रकार की ऊर्जा है। यहाँ पर वैज्ञानिकों द्वारा बनाये गये कुछ सिद्धान्त जैसे “लॉ ऑफ कन्जरवेशन ऑफ मॉस” पदार्थ को न तो तोड़ा जा सकता है। न उत्पन्न किया जा सकता है। फेल हो जाता है। हम यह कह सकते हैं कि ईश्वर ही ऊर्जा सब जगह विद्यमान रहती है न तो उसे तोड़ा जा सकता है न उसे उत्पन्न किया जा सकता है। लेकिन उसका रूप बदला जा सकता है। लॉ ऑफ कन्जरवेशन ऑफ इनर्जी (बरनौला) सिद्धान्त द्वारा सत्यता दिखलाता है। लेकिन सम्पूर्ण ऊर्जा स्थिर (कान्स्टेन्ट) रहेगी चाहे अन्दर की ऊर्जा हो या बाहरी ऊर्जा (कार्बोनेटिक इनर्जी, पोटेशियम वेव टाइडल हाइड्रो नाभिकीय चुम्बकीय विद्युत अथवा मेकनीकल ऊर्जा) हो केवल ऊर्जा आकार बदलेगा यही हमारा आध्यात्मिक सिद्धान्त है जिसकी सत्यता इस प्रकार है।

पदार्थ ही सब जगह है। लेकिन उसे पहले ब्रह्मा कहा गया था लेकिन उसे भी तोड़ा गया एग्रेगेजो सिद्धान्त के अनुसार अनेक अणुओं (मालूकूल्स) में जिससे पदार्थ हजार गुनी ऊर्जा उत्पन्न हुई पश्चिमी वैज्ञानिकों ने जिसको गौड कहा (जी+ओ+डी) जनरेटर+ओरगनाइजर+डिस्ट्रॉयर (समाप्त करने वाला) यानी पैदा करने वाला (जी) को पदार्थ कहा गया ब्रह्मा शब्द से सम्बोधित किया गया जिसमें बहुत ऊर्जा का निवास है। बाद में उसे भी अणुओं में तोड़ा गया (हजार गुनी ऊर्जा पदार्थ से ज्यादा पैदा हुई) यानी ब्रह्मा को तोड़ा जा सकता है अणु में जो सर्वत्र विद्यमान है। दूसरा शब्द (जो पावन कर्त्ता कहा गया जो ब्रह्मा से हजार गुना शक्तिशाली है। ब्रह्मा उससे उत्पन्न हुआ उसी ने ब्रह्मा को पैदा करने का आदेश दिया खुद पालन कर्त्ता जिम्मा (चार्ज) लिया मेरे प्यारे साथियों वैज्ञानिकों ने उस अणु को भी तोड़ा जि: + अणु = विष्णु पालन कर्त्ता ओ बी भी परमाणु में विभक्त हुआ, अणु ऊर्जा का सिद्धान्त बना, हजार गुनी ऊर्जा उत्पन्न अणु तोड़ने से हुई यानी परमाणु की ऊर्जा अणु की ऊर्जा से हजार गुनी है। इस तरह से परमाणु में ऊर्जा है परमाणु बम्ब जो भयानक है। संसार को नष्ट करने की क्षमता है। डी, डिस्ट्रीयर शब्द से सम्बोधित किया गया उसे आध्यात्मिक ढंग से शिव कहा गया इस तरह से ब्रह्मा+विष्णु+महेश शिव, को एक साथ करके गौड शब्द निकला पश्चिमी वैज्ञानिकों ने ईश्वर को गौड, कहा लेकिन बाद में उन्होंने परमाणु का भी विखणन किया जो दो भागों में विभक्त हुआ इलेक्ट्रॉन जिसकी शिव स्वामी का कार्तिकेय प्रथम पुत्र कहा गया उसको क्षमता परमाणु से भी ज्यादा है। एवं दूसरा न्यूक्लियस, जिसे गणेश कहा गया, सर्व शक्तिमान यानी गणेश न्यूक्लियस के अन्दर परमाणु की एक लाख गुनी ताकत, ऊर्जा है। लेकिन वैज्ञानिकों ने उसे भी तोड़ कर नाभिकीय बम्ब बना दिया जो महाप्रलय का कारण है। इस नाभिकीय बम्ब को तोड़ा गया केवल ऊर्जा में जिसको शक्ति कहा गया जो आकार बदल लेती है। लेकिन नष्ट नहीं होती उसे माँ का रूप दिया गया आध्यात्मिक रूप से भी उसे गणेश एवं स्वामी कार्तिकेयी तथा सम्पूर्ण ब्रह्माण्डों की जननी कहा गया उसी की सदी ने दुर्गा चण्डी सरस्वती भवानी गायत्री महालक्ष्मी तथा महाकाली के नाम से पुकारा उसी को शिव की भक्ति, विष्णु की भक्ति, ब्रह्मा की शक्ति कहा गया वही गायत्री बन कर सृष्टि की उत्पादिका हुई, महालक्ष्मी बनकर पालन कर्त्ता तथा महाकाली बनकर संहार कर्त्ता हुई। पश्चिमी वैज्ञानिकों ने ईश्वर को गौड, कहा परन्तु भारतीय वैज्ञानिकों ने परमेश्वर को “ॐ” कहा इस “ॐ” के अन्दर पाँच अक्षर अ जो X ओ, उ X म, ढो + अर्द्ध चन्द्र कार्तिक एवं एक बिन्दु गणेश है। और पाँच हो तत्त्व भूमि, जल, पवन, गगन, समीर इन्हीं पंच तत्वों से मानव शरीर का निर्माण हुआ इन सबके अन्दर ऊर्जा ही विराजमान है। कण कण में बही रहती है। इस तरह से ही ऊर्जा का रूप बदल सकते हैं लेकिन तोड़ नहीं सकते यही ऊर्जा ईश्वर का सिद्धान्त है। इसी से चराचर जगत उत्पन्न होता है। और यही जीविका है। तथा इसी में जगत समा जाता है। जिसे महाप्रलय कहते हैं। हमारे हिसाब से नाभिकीय सिद्धान्त भी यही है। यही बरनौली सिद्धान्त की सत्यता दर्शाता है।

डॉ० राधेश्याम मिश्र

(पी.एच.डी.)

डी मेकेनीकल इंजिनियर

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* नाचो इस तरह जैसे कोई देख नहीं रहा
प्यार ऐसे करो जैसे कभी चोट ना पहुँची हो
गाओ ऐसे जैसे कोई सुन नहीं रहा
और जिओ ऐसे जैसे धरती पर स्वर्ग उतर आया हो

असली बुद्धिमत्ता बनाम कृत्रिम बेवकृति

‘क्लासिक स्कूल ऑफ’ अक्लमन्दी में प्राचीन कथाओं के पाठ के जरिए अक्लमंदी के लेन दिए जा रहे थे। प्राचीन श्लोकों के जरिए अक्लमंदी सिखाने के सिलसिले में आचार्य जी ने एक श्लोक बताया, जिसका आशय था कि भारत भूमि इतनी महान है कि यहाँ जन्म लेने के लिए देवता भी आतुर रहते हैं। यह श्लोक सुनकर ‘बेवकृति’ नामक बच्चा बोला-जी इसका कारण यह है कि देवता जानते हैं कि बाकी देशों में तो उनका शरीर और सभ्य इन्सानों के भरोसे छोड़ा जा सकता है पर भारत में चोर-उच्चकों की संख्या इतनी ज्यादा है कि उनसे निपटना सिर्फ इंसानों के बूते की बात नहीं, इसलिए देवता भी भारत में जन्म लेने को लालायित रहते हैं। बच्चे के ऐसे वचन सुनकर आचार्य जी प्रभावित हो गये। आचार्य जी ने उसके नाम ‘बेवकृति’ आशय पूछा, तो बालक ने बताया कि जिस तरह साइंस में आर्टिफिशियल इंटेलिजेंस या कृत्रिम बुद्धिमत्ता का महत्व होता है उसी तरह वास्तविक जिंदगी में कृत्रिम बेवकृति का महत्व होता है। मेरा नाम कृत्रिम बेवकृति के महत्व को ध्यान में रखते हुए बेवकृति रखा गया है। आचार्य जी ने उसकी बुद्धिमत्ता की परीक्षा लेने के लिए कालिदास के बारे में बताया कि कालिदास कितने मूर्ख थे। वह जिस डाल पर बैठे थे, उसे ही काट रहे थे। पर उनकी मूर्खता की वजह से शादी विद्योत्तमा नाम की विदुषी से हो गई। जिसके बाद कालिदास की जिन्दगी बड़े मौज से कटी। आचार्य ने पूछा बेटा बता, बड़े-बड़े अक्लमंद धक्के खाते घूमते हैं। एक बेवकूफ की मौज क्यों आ गयी। इस पर बेवकृति ने कहा - आचार्य जी बेवकूफों की हमेशा मौज रही है। पर ओरिजिनल बेवकूफों की नहीं, कृत्रिम बेवकूफों की। ओरिजिनल बेवकूफ और कृत्रिम बेवकृति में फर्क यह होता है कि ओरिजिनल बेवकूफ, बेवकृति का महात्म्य और सार गर्भिता को नहीं जानता। कृत्रिम बेवकूफ वह अक्लमंद होता है, जो बेवकृति के पूरे फायदे को अच्छी तरह से जानता है।

कालिदास जी कृत्रिम किस्म के बेवकूफ थे। जिस डाल पर बैठे हों, उसे काटने का उपक्रम करना- यह परम अक्लमंदी का लक्षण है। जैसे आप देख सकते हैं कि तमाम राजनीतिक पार्टियों में असन्तुष्टगण तोड़-फोड़ की गतिविधियाँ करते रहते हैं। पार्टी आला कमान उनसे लस्त होता रहता है। पर असन्तुष्टगण नहीं मानते, अलग पार्टी बनाने की धमकी देते रहते हैं। यानी पेड़ से अलग डाल काटने की धमकी देते रहते हैं। उनकी ऐसी धमकियों से लस्त होकर एक दिन पार्टी आला कमान उन्हें कोई टॉप-टनाटन पोस्ट दे देता है। जो डाल नहीं काट रहे होते हैं यानी चुपके-चुपके अपना काम कर रहे होते हैं, उनकी तो खबर आलाकमान तक नहीं पहुँचती।

फिर कालिदास की सबसे बड़ी अक्लमंदी यह थी कि उन्होंने खुद को मूर्ख साबित किया, जिसकी वजह से उनकी शादी एक अत्यन्त रूपवती, बुद्धिमती राजकुमारी के साथ हुई। कालिदास की कहानी से हमें यह शिक्षा मिलती है कि जो खुद को बेवकूफ साबित कर दे, उसकी शादी राजकुमारी के स्तर की कन्या से हो सकती है। अन्य शब्दों में कहा जा सकता है कि सुन्दर स्त्रियाँ मूर्ख पुरुषों को बहुत पसन्द करती हैं। इसका कारण यह है कि सुन्दर स्त्रियाँ हर समय अपने रूप सौन्दर्य की तारीफ सुनना चाहती हैं। कोई अक्लमंद बंदा सुन्दरता की प्रशंसा एक या दो बार करेगा। इससे ज्यादा तारीफ करने के लिए बंदे का मूर्ख होना आवश्यक है। इसलिए सुंदरियों के बीच मूर्ख पुरुषों की भारी डिमांड होती है।

इसके अतिरिक्त कोई भी बॉस अपने आस पास अपने से ज्यादा बुद्धिमान लगने वाले व्यक्ति को नहीं देखना चाहता, सो बॉस को सेट करने के लिए वही फंडा अपनाना चाहिए, जो सुन्दरियों को सेट करने के लिए अपनाया जाता है। यानी ढोंग और मूर्खतापूर्ण हरकतें करनी चाहिए। ताकि बॉस को संदेह न हो जाए कि अगला जरा भी अक्लमन्द है। आगे आचार्य जी ने बेवकृति से पूछा, जमाना बदल गया है, बॉस भी अपने कार्यशैली में ढोंगी हरकतों को भाँपकर चुप रहना ही बुद्धिमत्ता है। एक कार्यालय में एक सबऑर्डिनेट अपने बॉस के पास गया। साहब जी, फलां काम फलां चीज की वजह से नहीं हो पा रही है, कुछ कीजिए न। इस पर बॉस ने अपने सबऑर्डिनेट के सामने अपने से ऊपर वाले को खरी-खोटी सुनायी, दो-चार लेटर टाइप कर, तुरन्त प्रशासनिक विभाग को भिजवा दिए। इतना सब करने के बाद बॉस अपनी कुर्सी पर बैठ गया, और अपने सबऑर्डिनेट से बोला, देख-तुम्हारे सामने ही मैंने इस काम के लिए कितनी मेहनत की और थक गया। बॉस चाहता तो वह अपने स्तर पर उस समस्या का निदान कर सकता था, लेकिन बॉस को काम तो आता नहीं था। सबऑर्डिनेट बॉस की ढोंगी कार्यशैली को भाँप कर चला गया। उसने दूसरे दिन अपने कार्यालय के अन्य स्टॉफ के सामने बॉस के कार्यशैली की प्रशंसा की। प्रशंसा की खबर बॉस को लगी, वह अपने सबऑर्डिनेट से बहुत प्रसन्न हुआ। कहने का मतलब यह है कि इस बदलते परिवेश में लोगों ने अपने आपको ऐसे ढाल रखा है कि ‘काम भी न हो, बॉस भी खुश’ बेवकूफी के ऐसे परम धांसू व्याख्यान सुनकर आचार्य उसके पैरों में लेटाय मान होकर बोले - हे बेवकृति आप चलकर मेरे संस्थान में वाइस चांसलर का पद संभालें। इस पर बेवकृति बोला- मैं क्या असली बेवकूफ हूँ कि जो सिर्फ वाइस चांसलर पोस्ट पर अटक जाऊँगा, अरे लुच्चई-लफंगई और ढोंग करते हुए एक दिन मैं मुख्यमंत्री पद तक पहुँचूँगा और खुद ढेर सारे वाइस चांसलर की नियुक्ति कराऊँगा।

* नियति से बच निकलने के लिए हम जो मार्ग चुनते हैं,
उसी पर बहुधा उससे भेंट हो जाया करती है। - ज्यां द लां फोर्वन

अतः लेखक ने अंत में, इस निष्कर्ष पर पहुँचे हैं कि

- * असली अक्लमंद वही है जो बेवकूफ सा दिखे।
- * असली अक्लमंदी के मुकाबले कृत्रिम बेवकूफी ज्यादा रिटर्न देते हैं।
- * बेवकूफी और ढोंग साथ-साथ करते रहना चाहिए।

उपर्युक्त सन्दर्भ में आज के बदले हुए परिवेश में 'चाटुकारिता' बहुत चरितार्थ है। ढोंग के साथ चाटुकारिता का चोली दामन का साथ है। अतः अनवरत आगे बढ़ते रहने के लिए इन्सान को ढोंगी के साथ-साथ एक सफल चाटुकार भी होना चाहिए। आज के कार्य शैली में मुख्यतया कार्यालयों में दो ही रूल (नियम) अच्छी तरह परिभाषित हैं।

रूल नं० १ बास इज आलवेज राइट !

रूल नं० २ इफ इट इज नाट सो !

फालो रूल नं० १ अगर उपर्युक्त सामंजस्य बैठाने में आप सफल हो तो फिर क्या कहना, नहीं तो खैर नहीं।

प्रो० जे.एन. राय 'बेचारा'
वैद्युत अभियांत्रिकी विभाग

वर्ग पहेली का उत्तर

१ अ	२ मा	वा	३ स		४ पि		५ शा	ल
६ ज	ल		७ प	रि	व	८ ह	न	
	९ दा	ग	ना		१० स	ता		११ व
१२ त	र			१३ ऊ		१४ दा	व	त
र		१५ प	रो	प	का	र		र
१६ स	ला	ह		र			१७ च	स
ना		१८ चा	१९ ल		२० म	ह	क	
	२१ प	न	द	ना	ना		२२ न	२३ त
२४ बा	ल		ना		२५ ना	मां	क	न

* अगर A = सफलता तो

$$A = X + Y + Z$$

जहाँ X = परिश्रम

Y = खेल (आराम)

Z = मौन

अल्बर्ट आइंस्टीन

बायोडीजल : ऊर्जा का हरा-भरा विकल्प

ऊर्जा के क्षेत्र में पेट्रोलियम पदार्थों पर हमारे देश की निर्भरता सर्वविदित है। हमारे देश में कच्चे तेल के जहाँ सीमित श्रोत हैं, वहीं इनके आयात के रूप में हमारे ऊपर बड़ा आर्थिक बोझ भी पड़ता है। इसके उपयोग से होने वाले प्रदूषण हमारे पर्यावरण व स्वास्थ्य के लिए चिन्ता का विषय है, तो हमें क्योटो सन्धि के साथ-साथ अन्य अन्तर्राष्ट्रीय मंचों पर किए गए पर्यावरण संरक्षण के वायदों को भी निभाना है।

इन्हीं तथ्यों के प्रकाश में वैकल्पिक ऊर्जा श्रोतों पर भी काफी अनुसंधान हो रहे हैं। इसमें एक क्षेत्र वैकल्पिक इंजन ईंधनों का है। हमारे देश में अन्तर्दहन पेट्रोल व डीजल इंजनों की संख्या सबसे अधिक है, और इन इंजनों का उपयोग समाप्त करने का सुझाव भी हमारे लिए सम्भव नहीं है। हमारे देश में पेट्रोल की अपेक्षा डीजल छः गुणा अधिक उपयोग होता है। अतः डीजल का विकल्प हमारे लिए एक बड़ी उपलब्धि हो सकती है।

ऐसा ही एक विकल्प है - बायोडीजल। बायोडीजल वनस्पति तेल से एक निश्चित प्रक्रिया द्वारा बनाया गया वैकल्पिक ईंधन तेल है, जिसे हम किसी डीजल इंजन में एक ईंधन के जैसे या फिर डीजल के साथ भिन्न-भिन्न मात्रा में मिलाकर उपयोग कर सकते हैं।

बायोडीजल के उपयोग से उत्पन्न गैसों जैसे कार्बन मोनोआक्साइड, हाइड्रोकार्बन, पार्टिकलेट मैटीरियल या सल्फर आक्साइड, डीजल से उत्पन्न गैसों का अपेक्षा कम होती है और अन्य पदार्थों को भी कम दूषित करती है। जहाँ बायोडीजल का उपयोग ग्रीन हाऊस गैसों की मात्रा में कमी करता है वहीं इससे ओजोन परत संरक्षण में भी मदद मिलती है।

उच्च फ्लैश प्वाइन्ट होने से इसको आग आदि से सुरक्षा होती है, और स्वास्थ्य के लिए भी यह कम हानिकारक है।

बायोडीजल बनाने के लिए बहुत छोटे स्तर पर कार्य किया जा सकता है, जिसके लिए वनस्पति तेल, अल्कोहल, हीटर, छनित्र व विडोलक आदि जैसी चीजों की आवश्यकता होती है और इनको एक निश्चित प्रक्रिया द्वारा बनाने पर लागत भी बहुत अधिक नहीं आती है।

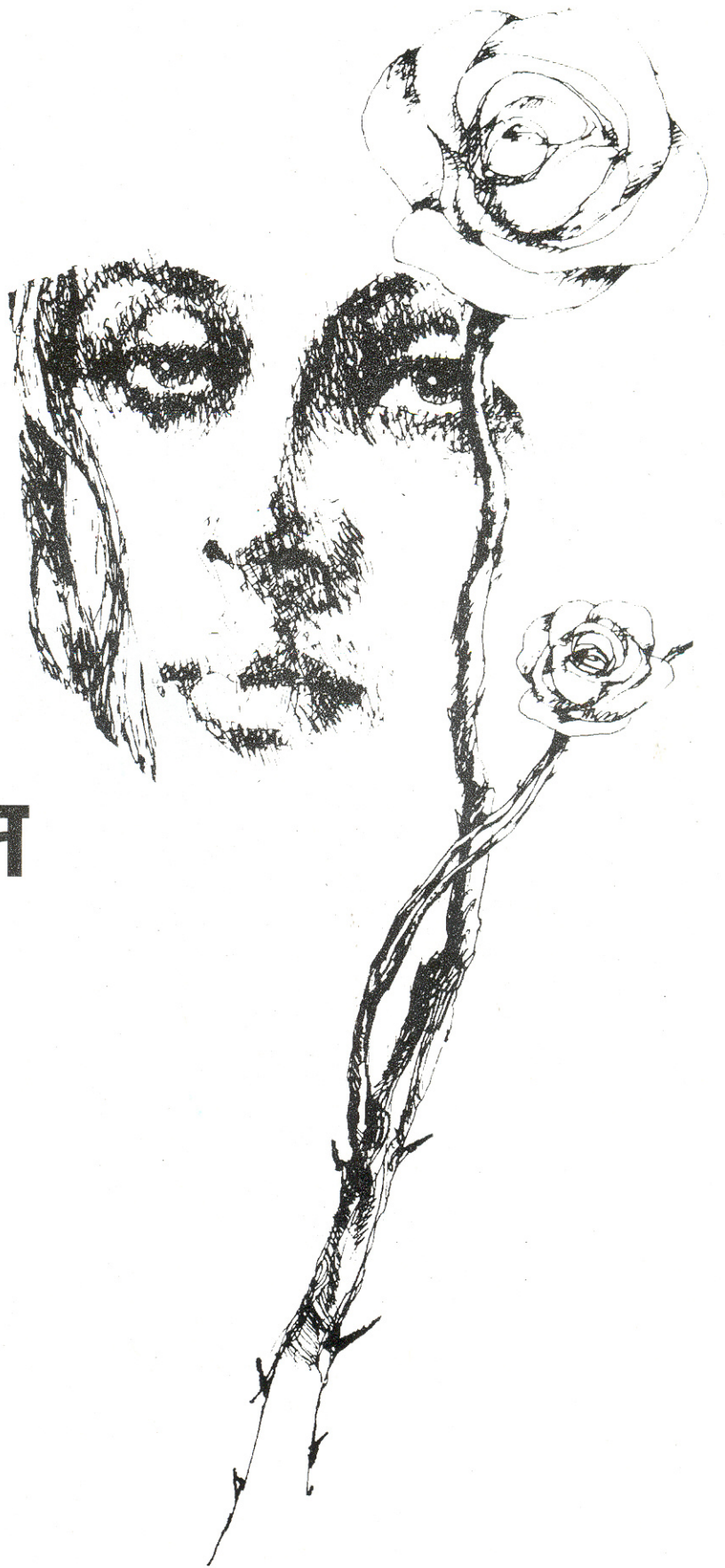
इसके लिए वनस्पति तेल की कई किस्में जैसे लिन्सीड आयल, कैस्टर आयल, पाम आयल, करन्जा आदि लिए जा सकते हैं। जिन्हें आसानी से ग्रामीण स्तर पर प्राप्त करके, छोटे-छोटे यूनिट में बायोडीजल बनाकर स्थानीय स्तर पर जहाँ ऊर्जा में निर्भरता प्राप्त की जा सकती है वहीं ग्रामीण बेरोजगारी व ऊर्जा के विकेंद्रीकरण के क्षेत्र में महत्वपूर्ण सफलता प्राप्त की जा सकती है।

बायोडीजल की विशेषताएं एक तरफ जहाँ 2006 के इमीशन मानकों पर खरी उतरी हैं वहीं, यह एकमात्र ऐसा वैकल्पिक ईंधन है जिसे अमेरिका की 'एनवारेन्मेन्ट प्रोटेक्शन एजेंसी टायर 1, हेल्थ अफेक्ट टेस्टिंग' में पास किया गया है।

इसे यदि वृहत स्तर पर अपनाया जाए तो हम भण्डारण व वितरण के उन्हीं उपकरणों का उपयोग कर सकते हैं, जिन्हें हम डीजल के लिए उपयोग करते हैं। इससे इसके उपयोग से इन्फ्रास्ट्रक्चर आदि के लिए कोई अतिरिक्त खर्च नहीं वहन करना होगा।

देश के कुछ स्थानों में जहाँ बायोडीजल पर अनुसंधान कार्य चल रहे हैं, उनमें दिल्ली इंजीनियरिंग कालेज एक अग्रणी संस्थान है। दिल्ली इंजीनियरिंग कालेज में बायोडीजल के क्षेत्र में यह सारा कार्यक्रम संस्थान के प्रिंसिपल प्रो० पी०बी० शर्मा के सतत मार्गदर्शन व दिशानिर्देश में चल रहा है। संस्थान में मेकैनिकल इंजीनियरिंग विभाग में सहायक प्रोफेसर नवीन कुमार ने विगत कई वर्षों में इस क्षेत्र में सतत कार्य करके एक विशेष स्थान प्राप्त किया है। संस्थान में कई वनस्पति तेलों से बायोडीजल बनाया गया है और साथ ही डीजल इंजनों पर इसका प्रयोगशाला व फील्ड में सफल परीक्षण भी किया गया है। वर्तमान में संस्थान में बायोडीजल क्षेत्र में भारत सरकार के अपरम्परागत ऊर्जा मन्त्रालय के सौजन्य से एक प्रोजेक्ट चल रहा है। संस्थान में जहाँ १०० लीटर के उत्पादन क्षमता वाले बैच साइज बायोडीजल रिएक्टर का निर्माण कर लिया गया है वहीं प्रो० नवीन कुमार के निर्देशन में सतत बायोडीजल रिएक्टर की डिजाइन व निर्माण का कार्य चल रहा है। साथ में संस्थान में बायोडीजल के क्षेत्र में स्नातक, परास्नातक व शोध स्तर पर प्रोजेक्ट व अनुसंधान का कार्य भी तेजी से चल रहा है।

काव्याब्जलि



राजनीतिक अस्थिरता

कहने को है लोकतंत्र,
सर्वोच्च लोकतंत्र,
फिर भी यहाँ है विद्यमान,
सर्वोच्च राजनीतिक अस्थिरता,
प्रमुख कारण इस Problem का है।
देश में कुछ गलत अधिकार,
कोई भी उठकर बना सकता है,
राजनीतिक दल इसके अनुसार
बार-बार के चुनाव, गरीबी धन व्यय
और Economy Cressis
करती ये कमजोर देश को,
है इसके ये भयंकर परिणाम,
अब की सरकार भी कम नहीं
है पूरी Jumbo Jet
बनाई है श्री वाजपेयी ने
70 Members की विशाल Cabinet,
3 बार बने Prime Minister,
हैट्रिक पूरी कर चुके,
अब जाकर बना पाए हैं,
ये एक Stable Government,
सरकारी धन का बड़ा भाग,
व्यय हो जाता मतदान में,
विकास देश का खाक करेंगे,
ये अस्थिरता की मझधार में,
कुप्रभाव डाले ये अपना,
देश की शासन व्यवस्था पर,
विदेश नीति भी रह जाती है,
आंतरिक समस्याओं में उलझकर,
पहले 13 दिन चली,
फिर चली 13 महीने,
आशा करते हैं अब चले
ये Government 13 साल

जैसे ये है एक सत्य
छोटा परिवार सुखी परिवार
वैसे ही राह Fact है।
कम दल देते मजबूत सरकार



सौरभ पाहवा
II Yr./PSCT

अंदर की बात

कर घोटाला 100 करोड़ का
नेता जी बुरे फँसे
CBI की Raid पड़ी तब
सब सरकार फँदे कसे,

फिर एक पत्रकार ने पूछा
आपका क्या विचार है

नेताजी बोले -

Opposition की चाल है यह
ये व्यर्थ का अत्याचार है,
एक 60 वर्ष के वृद्ध पर,
100 किलो का भार है,
आगामी चुनावों के लिए
व्यर्थ का Propaganda है
मेरी पवित्र आत्मा को,
Polluted करने का Fonda है

इस घोटाले में मुझे,
Planning से फसाने का,
hot flame में मेरी,
Reputation को भुनाने का
एक गहरा षडयंत्र है,
मेरा चरित्र हनन करके,
उनकी Entry का मंत्र है,
Poletics के नाम पर,
leadership के काम पर,
Nany blue कलंक है,
बेसुरी आवाज वाला,
बेढ़गा सा शंख है,

मुझे है कानून पर पूर्ण विश्वास
100% Unadulterated है मेरी आस,
कितना ही लंबा केस चले,
मैं इंतजार करूंगा
और अपने Carrer पर,
पूर्णविचार करूंगा,
जनता की सेवा
देश का कल्याण,
ये है मेरी First priority
विपक्ष के विवादों से,
I don't ful any insecurity

अंत में एक प्रश्न आया
क्या ये आप पर आघात है
नेताजी मंद-मंद मुस्कराएँ और बोले,
ये अंदर की बात है।



सौरभ पाहवा
II Yr./PSCT

अब तुम्हारी है बारी

रक्त-रक्त दिया है हमने इस आजादी के लिए
वक्त-वक्त खोया है हमने इस आजादी के लिए
लाटी-काटी सही है हमने इस आजादी के लिए
वंदे मातरम्, वंदे मातरम् कहते-कहते
वीरगति को प्राप्त हुए हम वंदे मातरम् कहते-कहते
अब तुम्हारी है बारी कुछ करने की, इस आजादी के लिए।

मत करो खून इस आजादी का,
मत रूलाओ इस आजादी को,
रोक लो इस खून की होली को,
हाँ ! तुम, हाँ ! तुम,
अब तुम्हारी है बारी कुछ करने की, इस आजादी के लिए।

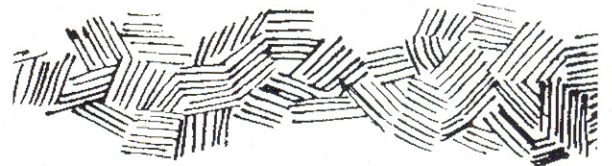
इसी पीड़ा को छोड़ दो
इस शांति को तोड़ दो
मत पलट करवट अब
देश मागे एक ही वरदान
दे बलिदान ! दे बलिदान !

बहुत सही है पीड़ा तुम्हारे लिए
अब तुम्हारी है बारी कुछ करने की, इस आजादी के लिए।

रो चुके, रोने वाले
रूलाने वालों को भी है हमने खदेड़ा,
तुम्हें ही अब जलना होगा, दिये नये जलाने के लिए,
अब तुम्हारी है बारी कुछ करने की, इस आजादी के लिए।



अनिल औसवाल
II Yr./2K3



जीवन गीत

अग्निपथ की रज पर चलकर,
पदचिन्ह छोड़े जाता हूँ।
मिले जो भी शत्रु या मित्र
उसे अपने संग ले आता हूँ।
इस जीवन की कठिनाइयों में भी,
अपने इस निर्मल हृदय से,
मैं भी एक गीत सुनाता हूँ,
मैं भी एक गीत सुनाता हूँ।

कभी जो अपना था, वह हुआ पराया चाहे,
किसी मित्र ने भी चाहे दिया ना साथ।
संसार के सारे संबंध टूटे हो,
और किसी अपने का ना हो साथ।
फिर भी इस दिल में उसका प्यार लिए,
उनके मन में अपनी छवि बसाता हूँ।
मैं भी एक गीत सुनाता हूँ,
मैं भी एक गीत सुनाता हूँ।

मैं नहीं चाहता तुम मेरे साथ चलो,
बस साथ रहने का अनुभव हो।
तुम्हारा हाथ ना हो मेरे हाथों में,
पर वैचारिक मन का संगम हो।
तुम्हारी यादों के सहारे ही इस जीवन सागर में,
मैं अपनी नैया पार लगाता हूँ।
मैं भी एक गीत सुनाता हूँ,
मैं भी एक गीत सुनाता हूँ।

समीर पौदार
IIIrd Yr./EC



तूफानी रात

ढकी बारिश की चादर से
स्याही सी काली उस आसमान पर ।
आँधी चली
बिजली चमकी
बदली गरज देती हुई
चढ़ गई आसमान के चेहरे पर
बनकर एक रूहानी परदा
जैसे कर रही हों कोई सजदा
कर रही हो दीदार अपने हमनशी का ।
जमीन गीली करी
उसने अपनी आखों की
बेशुमार दौलत से मानो मिली हो
मुद्दतों बाद
अपने आशिक से, अपने हमदम से ।
मिट्टी की खुशबू बनी महक उसकी
बादलों की गरज बनी धड़कन उसकी
बिजली से चमके बाद बने आँचल उसका
मौसिकी में उस पल सारा जहाँ खो गया इस कद्र मानो
खुदा के नू से वाकिफ हो गए
कल रात
बारिश की पहली बूँदों ने ज़मीन पर पाँव रखा था
कल रात
लोगों ने पहली बारिश का सजदा किया था ।

रोहित पठानिया
BE/Enviro 1st Yr.



स्मृति-दंश

निस्तब्ध
सन्नाटा
दूर तक
दूरियों का शून्य ।

चाँद
पास के एक
ठूँठ में अटका
मौन
दार्शनिक सा ।

संध्या
तुम्हारे आचल में
खड़े
इन पेड़ों का रंग
स्मृति घावों के
हरेपन से
कितना मिलता है ।



बिखरी
उदास चाँदनी
आहटों से विहीन
पम-ददियाँ
और
पेशियों से रिक्त
नीलाम्बर ।

सर्द
अलसायी हवा
इधर तन्हा
उधर तन्हा
आँखों से चलकर
पलकों ही में
कहीं स्थिर हुए आँसू
इन बर्फीली
वादियों की तरह
आदमी के
भीतर का दर्द
आदमी के
बाहर का दर्द,
बेहद सर्द

जितेन्द्र पाराशर "जतिन"

मृत्यु जन्म

साँसें थम रही है आज,
नब्ज जम रही है आज,
जीवन की इस क्रीडा में,
मृत्यु जन्म रही है आज ।।

जीवन मृत्यु का ये कृत्य,
है कितना विभीत्स,
भय से सहमी हुई आँखे,
शायद कुछ कह रही है आज,
जीवन की इस क्रीडा में,
मृत्यु जन्म रही है आज ।।

खौफ की वो काली लपेट,
लिपट रही हैं लिपट लिपट के,
जैसे मिला हो प्रेमी अपनी,
दूरगामी प्रेमिका से,
कितना अद्भुत, कितना अनुपम,
जीवन मृत्यु का ये संगम,
भय की अनुकम्पा के साथ,
मृत्यु जन्म रही है आज ।।

विवश सभी मूक दर्शक बने,
मृत्यु जन्म की राह में,
असहाय से यूँ मौन खड़े,
मृत्यु के सम्मान में,
अपलक दृष्टि से देख रहे,
मृत्यु का उत्पात वो, जैसे हो महातांडव,
रूद्र का कैलाश में ।।

पीड़ा से कराहती साँसें,
मन्द गति से आती साँसें,
साँसों में ही तो स्थिर है,
मृत्यु जन्म का ये संसार,
जीवन की इस क्रीडा में,
मृत्यु जन्म रही है आज ।।

मृत्यु का अनभिज्ञ साया
मंद गति से पास आया
दृष्टिगोचर कर दृश्य को
उसने फिर अट्हास लगाया
दब गई सम्पूर्ण पीड़ा
शान्ति का माहौल छाया, मृत्यु ने आज फिर
एक और ग्रास बनाया ।।

समाप्त हुआ संघर्ष
अंत जीवन का आया
टूट गई श्वास, निष्प्राण शरीर पाया ।
मुक्त हुई प्रतिवेदना, रूदन का माहौल छाया,
पवन की सांय-सांय से, वातावरण था सन्नाया
दारुण दुखों का आज था अंत आया
चीत्कारों के परिवेश में, मृत्यु ने आज जन्म पाया ।
व्याकुल नेत्रों के सम्मान के साथ
उत्पत्ति और अंत का मिलाप
सब देख रहे हैं आज
जीवन की इस क्रीडा में
मृत्यु ने जन्म लिया और आज ।।

Pawan Kumar Sharma
B. Tech (Electrical)
I Year 120/2004

* हमें मूर्खों के प्रति आभारी होना चाहिए,
अगर वे ना होते तो लोग भला सफल कैसे हो । - मार्क वेन

जीवन गीत

अग्निपथ की रज पर चलकर
पदचिन्ह छोड़े जाता हूँ।
मिले जो भी, शत्रु या मित्र,
उसे अपने संग ले आता हूँ।
इस जीवन की कठिनाइयों में भी
अपने इस निर्मल हृदय से,
मैं जीवन गीत सुनाता हूँ,
मैं जीवन गीत सुनाता हूँ।

कभी जो अपना था, वह हुआ पराया चाहे,
किसी मित्र ने भी चाहे दिया ना साथ।
संसार के सारे सम्बन्ध टूटे हों,
और किसी अपने का ना हो साथ।
फिर भी इस दिल में उनका प्यार लिए,
उनके मन में अपनी छवि बसाता हूँ,
मैं जीवन गीत सुनाता हूँ,
मैं जीवन गीत सुनाता हूँ।

मैं नहीं चाहता तुम मेरे साथ चलो,
बस साथ रहने का अनुभव हो।
तुम्हारा हाथ न हो मेरे हाथों में,
पर वैचारिक मन का संगम हो।
तुम्हारी यादों के सहारे ही इस जीवन सागर में,
मैं अपनी नैया पार लगाता हूँ,
मैं जीवन गीत सुनाता हूँ,
मैं जीवन गीत सुनाता हूँ।

समीर पौदार
IVth Year Electronics

* जिंदगी एक गणित है
जिसमें दोस्त जोड़े जाते हैं
दुश्मनों को घटाया जाता है
सुरतों को गुणा किया जाता है
और दुखों को भाग किया जाता है
अगर वे ना होते तो लोग भला सफल कैसे हो। - मार्क वेन

सबक

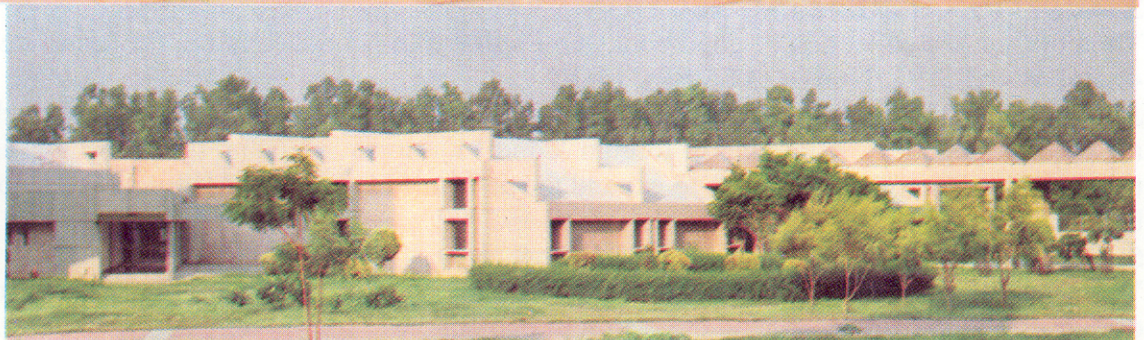
लेकर गोद में नन्हा सा बच्चा
चढ़ रही थी वह बस में
नज़र पड़ते ही ड्राइवर के मुँह से निकला
इतना दुबला बच्चा देखा नहीं मैंने जीवन में
मुरझाया सा चेहरा देख महिला का
पूछ लिया बगल में बैठे सज्जन ने
क्यों उदास हो रही हैं आप
कुछ गलत कह दिया किसी ने
महिला बोली - इस ड्राइवर ने मेरा किया है अपमान
सज्जन ने कहा - ड्राइवर को नहीं चाहिए करना ऐसा काम
पब्लिक सर्वेन्ट है यह आखिर किस बात का है इसे अभिमान
क्या इसे सबक नहीं सिखाना चाहिए - महिला बोली
सज्जन ने कहा - इस ड्राइवर को सबक जरूर सिखाओ
लेकिन यह बंदरिया तो मुझको देती जाओ।

कंजूस

शाम का वक्त था बत्ती चली गई थी
अंतिम सांसें गिन रही पत्नी की हालत नाजुक थी
कंजूस पति जला मोमबत्ती चल दिया
बिजली दफ्तर शिकायत लिखवाने
जाते-जाते वह कह गया पत्नी से
मौमबत्ती बुझा देना लगो जब तुम मरने

केशव अग्रवाल 'रोहित'
लेखा अधिकारी
दिल्ली इंजीनियरिंग कॉलेज

* हम आने वाले कल के अतीत हैं - मेरी तेब



The Campus



Library

The library services at Delhi College of Engineering are provided to student, staff & faculty member for **updating** their **knowledge** and **supporting** the **research**, and teaching learning activities. These services are provided through the central library and departmental libraries keeping in view the fast changes in technology the knowledge base of the library is updated regularly by way of adding new literature in the form of text books, reference books, reports, proceedings, abstracts & indexes, encyclopedias, data books, standards (National & International) Journals & database on CD-ROM.

Apart from adding the new literature the basic literature is also procured for the new Programmes along with current one. Some new section and services are also being started to make the **library services of ISO 9001 standard**.

1.1 EXISTING SERVICES AND SECTION

1. BOOK BANK

The College runs a Book Bank intended to assist students, from the economically weaker sections of society, by giving text books on loan to deserving students for a whole academic semester according to the rules framed for the purpose.

The College also runs a Book Bank specially meant for Scheduled Caste and Scheduled Tribe students who can borrow books from the Bank for a whole academic semester according to the rules framed for this purpose.

2. REFERENCE SECTION

A large number of Encyclopaedia, Handbooks are available in the Library.

3. ADDITIONAL READING SECTION

The library has a collection of good books on English and Hindi Literature for leisure reading.

4. JOURNALS/PERIODICALS SECTION

Journals being the primary source of information are essential to supplement the research activities and are required regularly. A number of foreign & Indian journals are being subscribed on-line to facilitate the on going research activities & to expand the areas of future research activities. The online Journals being subscribed includes IEL, ASME, ASCE and JET.

5. CD ROM ACCESS TO ENGINEERING & SCIENTIFIC DATA BASE

Various CD-ROM database i.e. BIS, ASTM, EI-index etc. are being subscribed. Apart from these databases library also has a good collection of books on CD-ROM and video recordings.

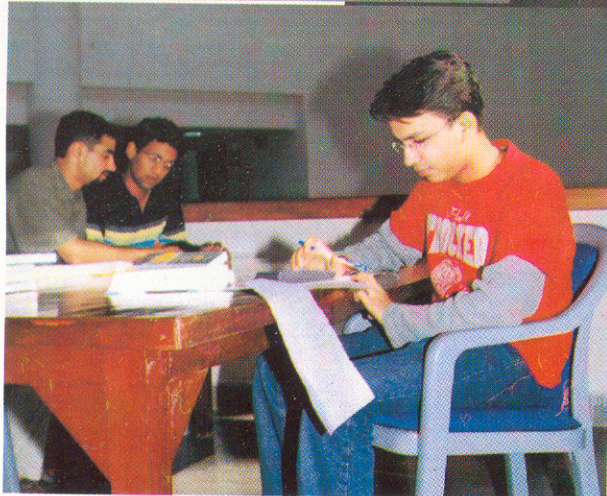
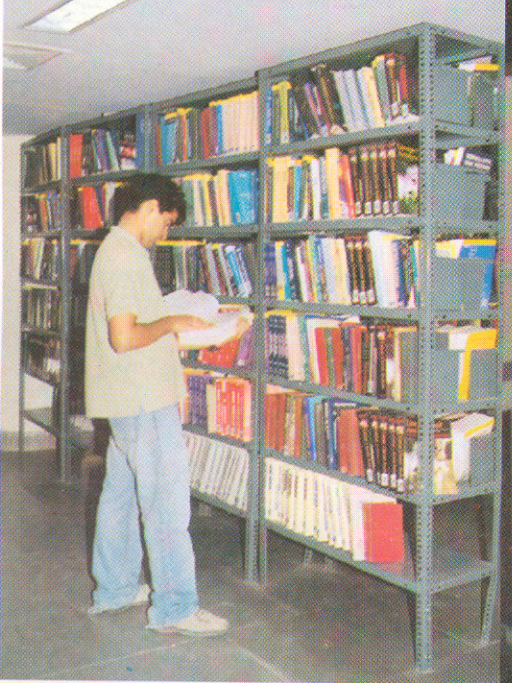
1.2 AUTOMATION OF LIBRARY & SERVICES

To keep pace with ongoing technological changes it is essential that the library records are computerised and the future information is obtained in digital format for making it accessible to the faculty & students at their work places which will not only save the time but make the simultaneous access of information at the same time which is otherwise not possible in print formats. To make the library services automated the following work are being carried out:

1. Data Entry of Existing Collection/Records
2. Data Entry of New Arrivals
3. Bar Coding of Existing Record/Collection
4. Bar Coding of Membership Cards and Incoming Records/Documents
5. Procurement of Hardware & Software
6. Electronic Security-surveillance System

1.3 NEW SERVICES & SECTION TO BE STARTED

1. Text Book Section for Teachers
2. Text Book Section for Students with Reading Room



Library

Computer Centre

DCE is having a **well equipped centralized computer center** to cater the high profile students and faculty in the college. It is housed in a magnificent **State-of art building** having specialized laboratories to provide variety of platforms and computing environment for UG, PG and research students. The center possesses number of servers and over **120 Compaq Pentium-IV computer systems** which have been added in the academic session 2003-04. Order for five **SUN CAD workstations** have also placed. The center is fully **networked through high-end intelligent CISCO switch**, and possess **round the clock 2 Mbps lease line**, ISDEN etc. internet facilities on all the nodes. It is also having the latest versions of compilers, scientific, technical and engineering software, training kits etc. for the students of different branches of engineering. College also possess over **400 P-III and P-IV and 6 server computer systems** installed in various labs. College is in the process of setting up campus LAN to extend these facilities to each and every department, hostel, and canteen etc. in the college. **Another 100 Pentium-IV shall be added to the centre during 2004-05.** Computer programming is an integral part of BE/ME/MSc/PhD programs. Besides computer center is also used for conduct of short term training programs for staff and faculty.





Computer Center



Hostel

Physical education & sports play vital role in achieving the aims and objectives of Education. The students of DCE are provided with excellent facilities and encouraged to take part in major competitions held in and around Delhi, particularly in Engineering Institutions. They also organize different sports competitions to imbibe leadership qualities, team spirit and organizational skills. Sports Council of DCE and Students Sports Committee has organized several events during 2003-2004 academic session

- **Inter Hostel tournament** was organized during September 1-6, 2003, which consists of badminton, basket ball, carrom, chess, cricket, football, table tennis, volleyball and tennis.

- Inter Hostel **Chess and Carrom tournament** was held during September 9-11, 2003. Barah Mihir Hostel team won in carrom while Bhaskaracharya team won in Chess.

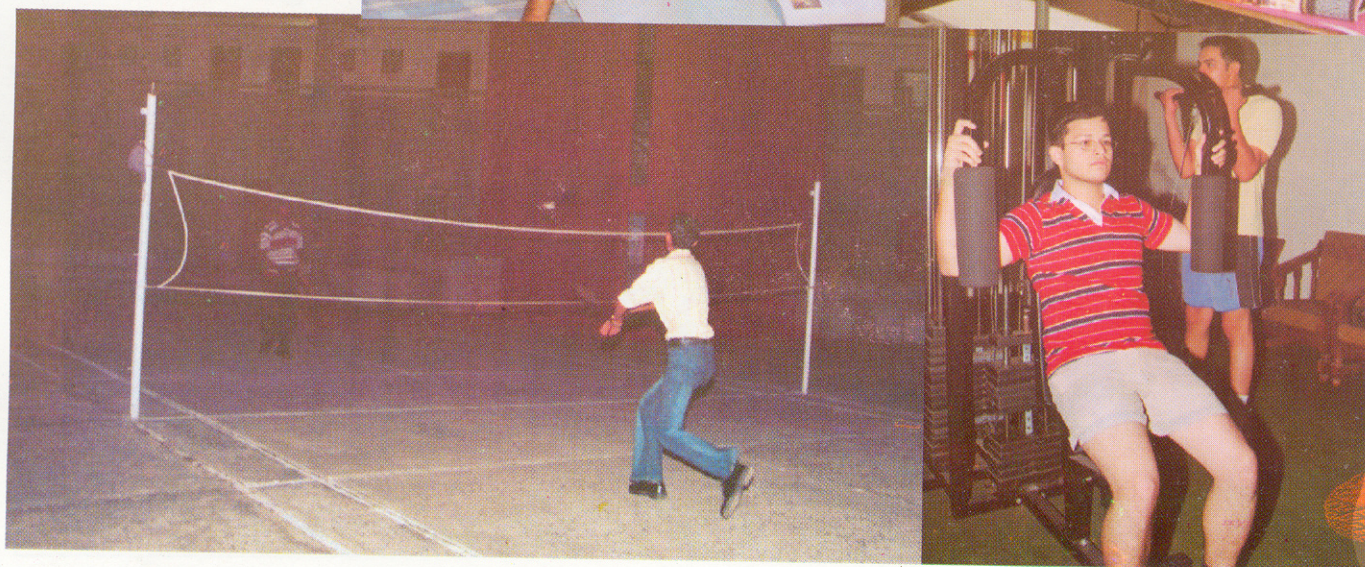
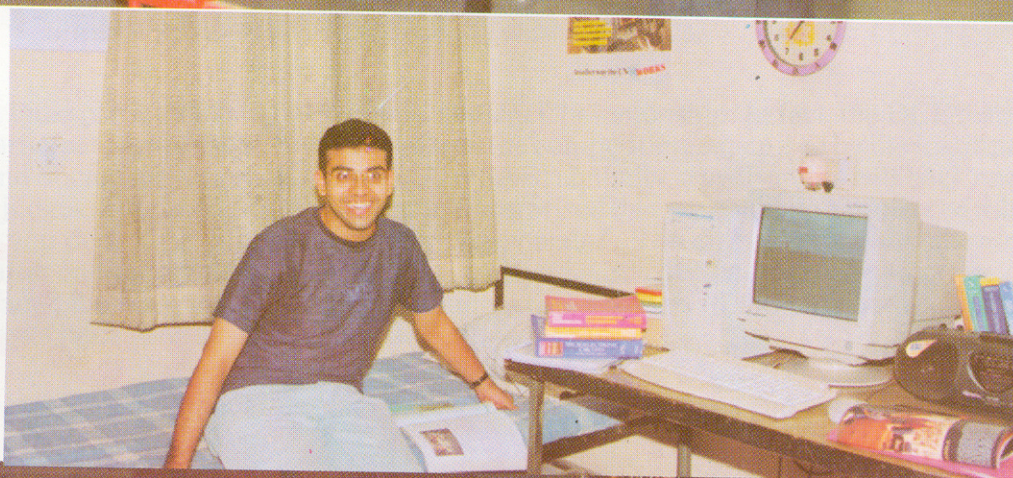
- The professional College tournament , held during October 21-23, 2003 was Inaugurated by Padamshri Satpal Pahalwan(Asiad Gold Medalist). Boys and girls from **14 professional colleges** participated in this tournament, which include LHMC Delhi, ITM Gurgaon, NSIT Delhi, Gargi College Delhi, Kamla Nehru College Delhi, AMITY Noida, B.V.P. Delhi, M.I.T. Delhi, IP Univeristy Delhi, JIMS Delhi, MAMC Delhi, UCMS Delhi, Lady Irwin College Delhi, SPA Delhi and DCE. Delhi College of Engineering won the Football and Basket ball trophy.

- **ARENA-2004**, the annual sports festival was held during March 29- April 8, 2004. The festival witnessed the large participation of boys and girls which included atheletics, badminston, table tennis, basketball, carrom, chess, cricket, tennis and volleyball. Prizes and certificates were awarded to the winners.





Hostel





Technical Section

DEFIANZ - DEFYING THE ODDS

16 brilliant and enterprising students of our College have done us proud by bagging the coveted 'Best Endeavour Trophy' at the Formula Student 2003, an international Formula Racing Car Design Competition held in Leicestershire, UK, between July 4-7. This team designed, made and drove the car in the competition sponsored by Aston Martin, Cosworth Racing, Ford, IBM, Jaguar and Shell. McLaren, Renault and Jaguar are known to pick up talent which proves itself here.

The team of students from DCE, which call itself Defianz Racing, not just designed the car, they did it literally in defiance of all odds : Lack of sponsors, unavailability of car components, indifferent response from the college and general scepticism of everybody around them. For the excited bunch of DCE ites and the whole of the college fraternity, it was a dream come true. Their design was specially commended by the jury and the other participants.

The team consisted of 11 people from civil, 1 each from mechanical, 2 from polymer science, production branches. The entire effort was pocket money of the members, loans and friends, relations and a few corporate sponsors. "Most other universities or them, we took Defianz delivered" according to the team.



11 people from civil, 1 each from electrical and mechanical. The 30 lacs needed for the car were collected from the members, loans and friends, relations and a few corporate sponsors. "Most other universities or them, we took Defianz delivered" according to the team.

It was for the first time that India participated in the Formula Student Championship. In fact, the DCE team was the first from Asia to participate in the event. "We heard about the competition, organised by the Institute of Mechanical Engineers and Society of Automobile Engineers (SAE) annually, a year-and-a-half back and decided to participate. The judges at the competition were simply surprised that we could do a project of this magnitude in India where you do not get proper racing car components". The engineering students had designed the Formula Car after one and a half years of planning and hard work. "What was really significant was that we could pit it against the technical expertise and engineering prowess of top universities of the world", says team leader Arpit Gupta, who also drove the car.

We are all proud of the great effort and expect this team to achieve higher successes and guide the juniors towards similar things.

Find Out After Y2K, What The New 2038 Bug Has To Say ?

- ✦ Modern computers use a 31 bits long integer for the second count. Thus when the second count reaches 2147483647, it will wrap to 2147483648.
- ✦ The precise date of this occurrence is Tue Jan 19, 03:14:07, 2038. A machine prone to this bug will show the time Fri Dec 13, 20:45:52, 1901.

ment

PERTOIR

in TOP 10!!
Murray!

Tech

Media Center Score
The Most Preferred Technology Schools
 B7's Plus
 OCR Quest
 172 Banting

YAHOO!

Top 10 Web Sites

1. The Student
 Yahoo! Search
 Yahoo! Mail
 Yahoo! News
 Yahoo! Sports
 Yahoo! Finance
 Yahoo! Weather
 Yahoo! Local
 Yahoo! Shopping
 Yahoo! Travel
 Yahoo! Health

2. Yahoo! News
 Yahoo! Sports
 Yahoo! Finance
 Yahoo! Weather
 Yahoo! Local
 Yahoo! Shopping
 Yahoo! Travel
 Yahoo! Health

week

1st Class
1st August

week

THE THIRDA

"Resonance" Initially.
"Repertoire" NOW!
CHANGE OF SCALE.

The University of Michigan is a public research university in Ann Arbor, Michigan. It is the largest university in the state and is a member of the Ivy League. The university is known for its research and its commitment to the public good. It is a member of the Ivy League and is known for its research and its commitment to the public good.

ICE's open circuit
Troika - 2004, the annual technical festi

HT PowerJobs

HT Horizons

HT Estates

-EUROPE

REPERTOIRE

**"Resonance" initially.
"Repertoire" NOW!
A CHANGE OF SCALE.**

DCE + TECH = DCETECH... er... RIGHT?

Dcetech Forums
come together!

DCETEC
• the student portfolio

studying in the UK?

DCE's open circuit
... Correspondent
... annual

Troika – 2004, the annual technical festi-

Media Center Survey
Most Preferred
Schools

Technology Solutions

- IT'S Possible
- OCR Direct
- IT'S Bounding
- IT'S Clear
- IT'S Happening

[illegible]

1. **What is the purpose of the experiment?**
The purpose of the experiment is to determine the effect of temperature on the rate of reaction between hydrogen peroxide and potassium iodide.

2. **What is the hypothesis?**
The hypothesis is that the rate of reaction will increase as the temperature increases.

3. **What are the variables?**
The independent variable is temperature. The dependent variable is the rate of reaction. The controlled variables are the concentration of hydrogen peroxide and potassium iodide, and the volume of each solution.

4. **What is the procedure?**
The procedure involves measuring the time taken for a fixed volume of iodine to be produced at different temperatures. This is done by mixing a known volume of hydrogen peroxide with a known volume of potassium iodide and measuring the time taken for the solution to turn blue-black.

5. **What are the results?**
The results show that the rate of reaction increases with temperature. The time taken for the solution to turn blue-black decreases as the temperature increases.

6. **What is the conclusion?**
The conclusion is that the rate of reaction between hydrogen peroxide and potassium iodide increases with temperature.

7. **What are the limitations of the experiment?**
The limitations of the experiment are that the temperature of the solutions may not be exactly controlled, and the time taken for the solution to turn blue-black may be difficult to measure accurately.

8. **What are the suggestions for further investigation?**
Further investigation could involve measuring the rate of reaction at different concentrations of hydrogen peroxide and potassium iodide, and at different volumes of each solution.



Web Management Group

REPAIRS



AMAG

REVERIE | 95



MINI BAJA, 2005 USA DELHI COLLEGE OF ENGINEERING



Mini Baja is an ALL TERRAIN VEHICLE design contest organised by SAE INTERNATIONAL at seven different locations around the world. Mini Baja competition started in 1976 in South Carolina and since then has been a premier engineering design competition for university students. SAE organizes 7 Mini Baja Competitions across the globe M-Baja East-USA, M-Baja West-USA, M-Baja Midwest-USA, M-Baja Mexico, M-Baja Brazil- Baja South Africa, M-Baja Korea.

The aim of the competition is to design and build a prototype of a rugged single seat ALL TERRAIN VEHICLES whose design can be used by a firm to manufacture the vehicle commercially. This All -Terrain Vehicle can be used by Army Personnel, Agriculturist, etc. and Motor Sports enthusiasts to negotiate All Terrains consisting of swamps, rocky areas, hills, shallow water, logs, steep incline, mud etc.

Our team from Delhi College of Engineering was the only Indian and 2nd team from Asia to participate in South African chapter of Mini Baja. The event was held on 15th and 16th of October 2004. Our team comprised of 13 students of Mechanical Engineering. We left on 9th of October 2004, from Delhi and reached Johannesburg via Nairobi on the 10th October. The



competition was organised by University of Pretoria ,South Africa. We were provided paid accommodation by them. The competition comprised of three events:

1. Static Round: The vehicle was adjudged on the basis of design and cost involved. The event was held at Gerotek Test Facilities, South Africa on 15th October 2004. Our team was placed 15th out of 35 participating teams.

2. Dynamic Round: In this round teams were tested on dynamic parameters like Hill climb, pulling, manoeuvrability and acceleration. We outperformed many of the leading universities in this round and were placed 16th.

3. Endurance Race: This event comprised of a 4 hour Endurance Race, which test the vehicle to the ultimate limits of off road conditions. The team which makes the maximum no. of laps in the stipulated time emerges the winner. This round was held at Zwartkops Off Road Academy, Pretoria. Owing to the failure of the break lining in between the race we could manage only 22 laps and were placed 21st in the round.

The team Resistance, DCE was placed overall 19th on the basis of the 3 rounds. It was an enriching experience for us to see our dreams epitomising into reality. We got the hands -on experience of working on an automobile, which otherwise wouldn't have happened. The pride of representing the country kept us moving in the hours of adversity. Though we may not have emerged as a winner the knowledge gained would help us garner more laurels for the country in general and the college in particular in the days to come.



Engineering

THE IITs CONTINUE TO REIGN.
KANPUR LEADS WHILE ROORKEE
IS BACK AMONG THE WINNERS.

By Sharmila Dhal

It is time to chill. The "bhulla" session is in full swing and the students are at their flippant best. After a rigorous day of study, there is nothing better than this informal grouping in the evenings when they lounge around in the first empty classroom that they can find and joke about everything from the theatre of politics and Bollywood to the more immediate affairs of the institute and their own idiosyncrasies. As the conversation in jest flows, two students struggle to push open the door and let themselves into the room. "Why can't it open on its own?" mutters one of them in sheer annoyance. Ordinarily, such a remark would go

INDIA TODAY
MAY 17, 2004

Top 10 Ranking

2004			2003	2002
1	▲	Indian Institute of Technology, Kanpur	2	2
2	▲	Indian Institute of Technology, Delhi	6	10
3	▲	Indian Institute of Technology, Mumbai	3	4
4	▲	Indian Institute of Technology, Chennai	4	5
5	▲	Indian Institute of Technology, Guwahati	7	-
6	▲	Indian Institute of Technology, Roorkee	-	7
7	▲	Indian Institute of Technology, Kharagpur	1	1
8	▲	BITS, Pilani	5	3
9	▲	Anna University, Chennai	10	-
10	▲	Delhi College of Engineering, Delhi	-	-

/ 1 means the college did not figure in the top 10 of the previous years mentioned.

RANKING OF COLLEGES ON THEMES

	REPUTATION		CURRICULUM		QUALITY OF ACADEMIC INPUT		STUDENT CARE		ADMISSION PROCEDURE		INFRASTRUCTURE		JOB PROSPECTUS		PERCEPTUAL RANK		FACTUAL RANK	
IIT, Kanpur	1	1	1	1	1	1	1	4	1	1	1	1	1	4	1	1	9	2
IIT, Delhi	2	4	2	1	3	4	2	6	2	4	3	4	4	1	2	4	2	-
IIT, Mumbai	3	3	3	3	2	3	3	1	4	3	4	2	3	3	3	3	5	-
IIT, Chennai	4	6	4	5	4	5	4	1	3	5	2	4	2	5	4	5	3	2
IIT, Guwahati	5	7	6	8	5	7	5	7	5	7	5	7	7	8	5	7	7	8
IIT, Roorkee	6	-	7	-	6	-	6	-	6	-	6	-	8	-	6	-	1	-
IIT, Kharagpur	7	2	8	4	7	2	7	1	7	1	7	2	6	1	7	2	4	1
BITS, Pilani	8	5	5	6	8	6	9	5	9	5	8	5	5	5	8	6	8	6
Anna University, Chennai	9	8	9	-	9	8	8	-	8	8	9	8	9	-	9	9	-	-
Delhi College of Engineering, Delhi	10	-	10	-	-	-	10	-	10	-	-	-	10	-	10	-	6	-

Ranks are only for individual parameters. The perception rankings are with respect to all colleges covered in the survey while the factual scores are confined to only the national top 10. The overall ranks are based on differing weightages given to these factors. Smaller figures are rankings for 2003. (-) implies the college didn't figure in the top 10.

Placement - 2005 at a Glance (upto 15th September, 2004)

S. No.	Company	Nature of Job	B.E. COE	B.E. ECE	B.E. EE	B.E. ME	B.E. PIE	B.E. CE	B.E. ENE	B.E. PS	P.G. ALL	Salary In Rs. LPA	Students Placed
1.	TCS	Service	18	20	21	25	5	9			8	2.24	106
2.	Infosys	Service	7	3	9	10	5	5	14	10		2.2	63
3.	Maruti	Automotive			4	13	5					2.7	22
4.	CSC	Services	9	8								3.5	17
5.	Perot System	Software	3	19	4	4					1	2.4	31
6.	IBM	Software	10	12	4	1		5	2	2	3	2.75/3.75	39
7.	Quark	Software					2		1		2	2.5	5
8.	Cognizant	Software		4	5	8	4	3	3	5	3	2.11	35
9.	ST Micro	Software/Hardware	1	4							1	4.62/5	6
10.	Wipro	Software	2	3	1		1	1		1		2.04	9
11.	Hughes	Software	4	5							2	3/3.25	11
12.	Inductis	Consultancy		1	4		2					3.5	7
13.	Fidelity	Software	1	2								2.7	3
14.	L & T	Automotive			1	5						2.3	6
15.	Mentor Graphics	Software	1	2								5	3
16.	Hewlett Packard	Software/Hardware	4	5	3							2.1	12
17.	Evalue Serve	Software			1	1		1	2	2		4	7
18.	Adobe	Software	1									5.6	1
19.	Interra Systems	Services		1								3.5	1
20.	Sapient	Services	1	2	1		1			2		2.75	7
21.	Atrenta	Hardware/Software	4								2	4.8/5	6
22.	Ut Sarcom	Service	1	2								3.5	3
23.	Induslogic	Software	4									4.2	4
24.	Tata Telecom	Services		3								2.3	3

Total No. of B.E. (UG) placements = 395 out of 415 and Total No. of M.F. (PG) placements = 23 out of 35

A Viable Two Stroke Alternative

The Objective is to bring out a concept design which can retain the advantage of two stroke engines and eliminate or reduce drastically its disadvantages. That perfect combination of low emissions, light weight, high power and reliable Engine.

Various Advantages and Disadvantages of Two strokes are being listed below:

Advantages:

Two-stroke engines do not have valves, simplifying their construction. Also, Two-stroke engines are lighter, and cost less to manufacture. And, Two-stroke engines have the potential for about twice the power in the same size because there are twice as many power strokes per revolution.

Disadvantages:

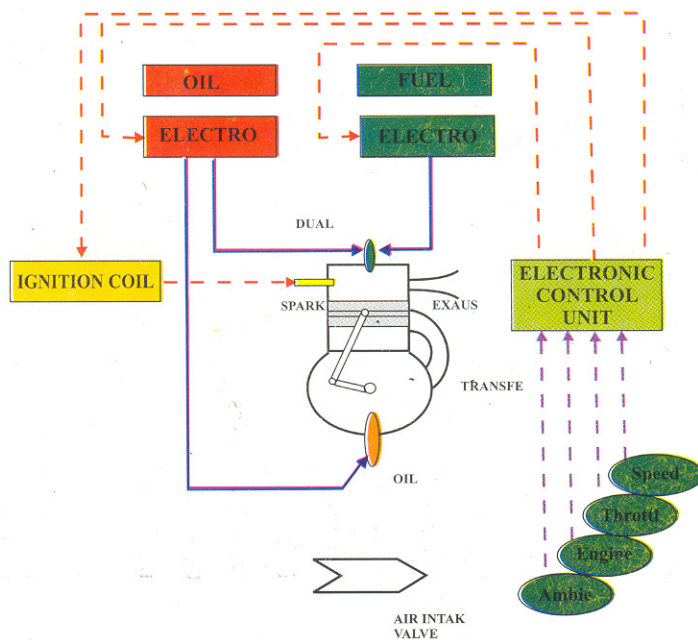
Two-stroke engines don't live as long as four-stroke engines due to faster wear on account of no dedicated lubrications system. Two-stroke oil can be expensive. Mixing ratio is about 4 ounces per gallon of gas; burning about a gallon of oil every 1,000 miles.

Two-stroke engines do not use fuel efficiently, yielding fewer miles per gallon. Also, Two-stroke engines produce more pollution from the combustion of the oil in the gas. The oil makes all two-stroke engines smoky to some extent, and a badly worn two-stroke engine can emit more oily smoke. Also, Each time a new mix of air/fuel is loaded into the combustion chamber, part of it leaks out through the exhaust port.

Solution: The proposed design achieves these objectives as far as possible by retaining the basic working cycle of a 2 stroke engine and introducing sensors, actuators and computing power ,which is the unavoidable future technology to attain the performance we want while preserving air quality and fuel resources and overcome other disadvantages. It increases fuel economy by 35%, Reduces oil consumption by 50%, HC emission by 80% while retaining advantages of two strokes including lower pumping loss and low NOX.

DIRECT FUEL INJECTION USING MODIFIED FICHT RAM INJECTION TECHNOLOGY:

Schematic representation of proposed design



Basic ECU functioning :

The Electronic Control Unit (ECU) controls the engine operation by monitoring engine conditions. Starting and warm-up are also controlled by the ECU.

The ECU manages engine performance in one of two different modes of operation. The mode used is dependent on engine throttle setting.

- Below 15% throttle the engine is in the stratified mode.
- Above 15 % it runs in a homogeneous mode

Another key feature of this engine is the multi strike ignition. The ignition system no longer produces just one spark per cycle of operation. In the stratified mode of operation it produces up to 15 sparks, equivalent to an extended spark of long duration. In the homogeneous mode only three or four sparks are used. This ignition setup helps to completely burn the fuel in the combustion chamber. The Electronic Control Unit receives input from various sensors and determines engine timing, spark duration and injector operation. It controls oiling and during break in it provides for extra oiling. It contains an idle governor to ensure a consistent idle speed. It stores service codes to aid in trouble shooting and records engine hours and an rpm profile. The engine does monitor itself for problems. The situations monitored include over heat, ECU over heat, operating voltage high or low, battery voltage high or low, over revving, oil pressure, oil injector continuity, water in fuel, sensor malfunction. The ECU provides for a governed idle. During warm up the engine will start out at a higher rpm and thereafter tapers down. This eliminates the need for a separate choke

Working: Two Modes

• Up Stroke - Intake and Compression:

The combustion of fuel takes place in either of the two modes, which is controlled by the ECU. The choice of the mode depends upon the engine RPM or the throttle position. These two modes are described below:

○ STRATIFIED MODE:

This mode is operated at **lower engine RPM** i.e. *when the throttle is opened just below 15%*. This name comes from the fact that in this mode the air/fuel ratio varies through out the cylinder, the various ratios exist in layers. During this mode while the exhaust is being purged from the cylinder no fuel is being injected. When the piston has moved upward and the exhaust port is closed the ignition and injector go into operation. First the spark plug starts to fire. Then just a split second later fuel is injected into the engine directly on the spark plug. Since this is a multi spark engine all of the fuel is ignited, thus being a very clean burning mode (no unburnt fuel escapes).

○ HOMOGENOUS MODE:

This mode is operated at higher engine RPM i.e. *when the throttle is opened more than 15%*. This name is used because the air and fuel is evenly mixed and dispersed throughout the cylinder. The injector fires a fuel charge much earlier, the piston is close to the bottom of its travel. As the piston moves upward it runs into the fuel plume and that further disperses it into the cylinder, completely mixing it with the air. The mixture compresses and the spark are fired 4 or 5 times (the dispersed fuel fires easier - requires less spark). Because the exhaust port is open while there is fuel in the cylinder some of it is lost out the port. But as this mode is only operated at higher engine RPM, the time delay between the closing of the exhaust port and fuel injection is extremely small. Therefore the fuel loss through exhaust port is negligible, thereby increasing the fuel economy considerably.

LUBRICATION SYSTEM:

As mentioned before, this is one of the most unique featured of the proposed design. In the conventional two strokes, the lubricant is added directly to the fuel and therefore offers no flexibility in the fuel-lubricant ratio. This results in higher consumption of the lubricant, even while inefficient lubrication takes place.

The difficulty is overcome by the use of a dedicated ECU controlled lubricating system. It uses two injectors, one in the crankcase and one dual injector (same as fuel). According to the engine operating conditions, an optimum quantity of lubricant is precisely administered to the mechanical parts, thus resulting in a highly efficient lubrication and reduction of friction and also no wastage of lubricating oil. However, some combustion of the lubricating oil is unavoidable, though this is very less compared to the conventional model. It is to be noted that as the friction in the system corresponds to the engine speed, the quantity is directly proportional to the RPM.

In the conventional system the petrol somewhat has the effect of trying to wash it back off. Some of the oil is passed to the combustion chamber and burned. It is a workable system but not as efficient. The system injects oil directly into the engine without mixing. The oil that makes it into the engine gets used more efficiently so less is needed. The oiling system contains a diaphragm pump to move the oil from the reserve tank to the engine.

An additional advantage of the system is that the oil keeps the injectors clean. The tips of the injectors are in the combustion chamber and are subject to combustion deposits. The oil coats the tips and helps to keep the deposits from sticking.

Hari Krishnan
ME VI Sem.

THE UNIFICATION OF PHYSICS

Biggest challenge in theoretical physics is to find a theory of everything that would include all the partial theories. All the events could be explained by this theory of everything. Many scientists tried to find this theory but did not get the success but now as we know so much about laws of physics this seems to be possible that we'll be able to cross this hurdle but still there is some probability that we may not find such a theory. In the following article I'll discuss about the unification of physics i.e. the search for this theory of everything and the chances of success and failure in doing so. I'll also discuss the future of physics if this theory would be discovered.

Scientists are trying to find a complete, consistent, unified theory that would include all the partial theories as approximations and that did not need to be adjusted to fit the facts by picking the values of certain arbitrary numbers in the theory. The quest for such a theory is known as "**the unification of physics**." Einstein spent most of his later years unsuccessfully searching for a unified theory, but the time was not ripe: there were partial theories for gravity and the electromagnetic force, but very little was known about the nuclear forces. Moreover, Einstein refused to believe in the reality of quantum mechanics, despite the important role he had played in its development. Yet it seems that the uncertainty principle is a fundamental feature of the universe we live in. A successful unified theory must, therefore, necessarily incorporate this principle

There are theories like general relativity, the partial theory of gravity, and the partial theories that govern the weak, the strong, and the electromagnetic forces. The last three may be combined in so-called grand unified theories, or GUTs, which are not very satisfactory because they do not include gravity. The main difficulty in finding a theory that unifies gravity with the other forces is that general relativity is a "classical" theory; that is, it does not incorporate the uncertainty principle of quantum mechanics. On the other hand, the other partial theories depend on quantum mechanics in an essential way. A necessary first step, therefore, is to combine general relativity with the uncertainty principle.

Absurd infinities occur in the other partial theories, but in all these cases the infinities can be canceled out by a process called renormalization. This involves canceling the infinities by introducing other infinities. Although this technique is rather dubious mathematically, it does seem to work in practice, and has been used with these theories to make predictions that agree with observations to an extraordinary degree of accuracy. Renormalization, however, does have some serious drawbacks.

There is one solution called supergravity. The idea is to combine the spin-2 particle called the graviton, which carries the gravitational force, with certain other particles of spin $3/2$, 1 , $1/2$, and 0 . In a sense, all these particles could then be regarded as different aspects of the same "superparticle," thus unifying the matter particles with spin $1/2$ and $3/2$ with the force-carrying particles of spin 0 , 1 , and 2 . This would cause many of the possible infinities to cancel out, but it was suspected that some infinities might still remain. However, the calculations required to find out whether or not there were any infinities left uncanceled were so long and difficult that no one was prepared to undertake them.

In 1984 there was a remarkable change of opinion in favor of what are called string theories. In these theories the basic objects are not particles, which occupy a single point of space, but things that have a length but no other dimension, like an infinitely thin piece of string. These strings may have ends (the so-called open strings) or they may be joined up with themselves in closed loops (closed strings) String theories, however, have a problem: they seem to be consistent only if space-time has either ten or twenty-six dimensions, instead of the usual four! So why don't we

notice all these extra dimensions, if they are really there. Why do we see only three space dimensions and one time dimension? The suggestion is that the other dimensions are curved up into a space of very small size. This is so small that we just don't notice it: we see only one time dimension and three space dimensions. Another problem is that there are at least four different string theories (open strings and three different closed string theories) and millions of ways in which the extra dimensions predicted by string theory could be curled up. But it has been found out that different string theories and different ways of curling up the extra dimensions could lead to the same results in four dimensions.

Can there really be such a unified theory? Or are we perhaps just chasing a mirage? There seem to be three possibilities:

1. There really is a complete unified theory (or a collection of overlapping formulations), which we will someday discover if we are smart enough.
2. There is no theory of the universe: events cannot be predicted beyond a certain extent but occur in a random and arbitrary manner.
Some would argue for this possibility on the grounds that if there were a complete set of laws, that would infringe God's freedom to change his mind and intervene in the world. It's a bit like the old paradox: **can God make a stone so heavy that he can't lift it?** Say someone ask him to make a stone so heavy that he (God) is not able to lift it. Now someone else prays to God and requests him to lift the same stone. Now since he is God he can lift it (omnipotent) but in that case it would contradict first statement. But God's intervention can be attributed to the limitation imposed by uncertainty principle which says that it is impossible to predict events with certainty. There always be some randomness.
3. There is no ultimate theory of the universe, just an infinite sequence of theories that describe the universe more and more accurately.

This possibility, that there is an infinite sequence of more and more refined theories, is in agreement with all our experience so far. Everyday we find a new class of observations and to explain this we modify our present theories and this process continues. However, it seems that gravity may provide a limit to this sequence of "boxes within boxes."

What would it mean if we actually did discover the ultimate theory of the universe? we could never be quite sure that we had indeed found the correct theory, since theories can't be proved.

Even if we do discover a complete unified theory, it would not mean that we would be able to predict events in general, for two reasons. The first is the limitation that the uncertainty principle of quantum mechanics sets on our powers of prediction. In practice, however, this first limitation is less restrictive than the second one. It arises from the fact that we could not solve the equations of the theory exactly, except in very simple situations. (We cannot even solve exactly for the motion of three bodies in Newton's theory of gravity, and the difficulty increases with the number of bodies and the complexity of the theory.) We have, as yet, had little success in predicting human behavior from mathematical equations! So even if we do find a complete set of basic laws, there will still be in the years ahead the intellectually challenging task of developing better approximation methods, so that we can make useful predictions of the probable outcomes in complicated and realistic situations.

A BRIEF HISTORY OF TIME
by STEPHEN HAWKING.

Compiled by
Sumit
PE VI Sem.

HIGH PERFORMANCE HYBRIDS ACCELERATING TECHNOLOGY

Around the globe, engineers are working to produce the green car of the future. Here are some of the energy sources which may revolutionize the vehicles of tomorrow and in some cases have already found their way into the cars of the environmentally friendly.

The possible technologies which we can envision to drive automotive technology in the near future can broadly be classified as:

1. Zero emission vehicle ZEV

- Electric Vehicle EV
- Fuel Cell Vehicle FCV
- Solar Powered Vehicle SPV
- Cryogenic Engine Vehicle CEV

2. Partial Zero Emission Vehicle PZEV

- Hybrid Electric Vehicle HEV

We have centered our report on the use of HEV technology in the field of light duty vehicles, specifically to replace the existing conventional Maruti-Suzuki 800 with a hybrid mid-sized car. The main objectives to weigh the success of the proposed design remain as follows:

- ✓ To achieve greater fuel economy advantage over conventional vehicle
- ✓ To achieve comparatively higher efficiency & performance
- ✓ To minimize the GHG and HC emissions

The only design concept which stands out to be economically and practically viable stands out to be the hybrid electric vehicle. Hybrid technology is gaining in popularity, broadening its scope to embrace performance, and driving industry collaboration. It has spearheaded the growth of technology in the automotive sector world over as more and more auto makers pool in to demonstrate their technical might in the field of hybrid technology.

What is a Hybrid System?

Fusion between an internal combustion engine and electric motor achieving different functions through different power combinations

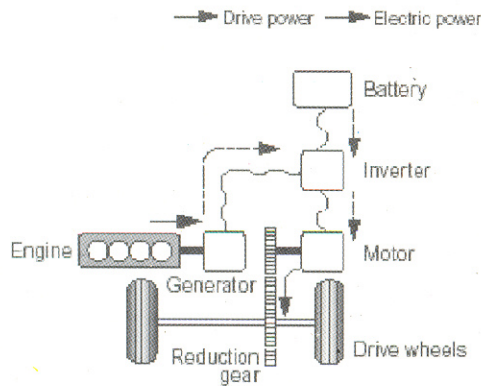
Automobile hybrid systems combine two motive power sources, such as an internal combustion engine and an electric motor, to take advantage of the benefits provided by these power sources while compensating for each other's shortcomings, resulting in highly efficient driving performance. Although hybrid systems use an electric motor, they do not require external charging, as do electric vehicles. The key features of a hybrid can be summarized as:

- ✓ Hybrid engines are built smaller to accommodate the 99% of time when not going up hill or accelerating quickly. It uses the battery to provide extra acceleration power when needed.
- ✓ When the car is stopped, hybrid gasoline motors can shut off and run off their electric motor and battery.
- ✓ Hybrid cars are often lighter and more aerodynamic; tires are often stiffer and inflated higher to reduce drag.
- ✓ Hybrid cars often recover braking energy and use it to charge the battery; no plug-in or long extension cords necessary.

Types of Hybrid Systems

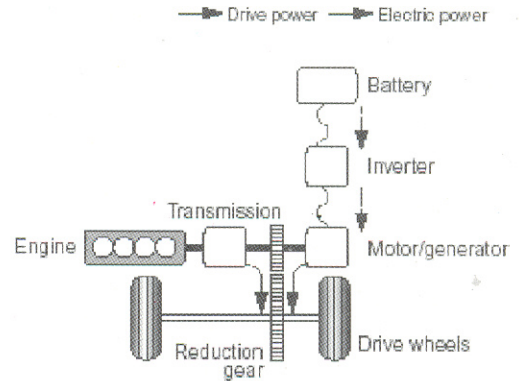
The following three major types of hybrid systems are being used in the hybrid vehicles currently on the market:

Series Hybrid System



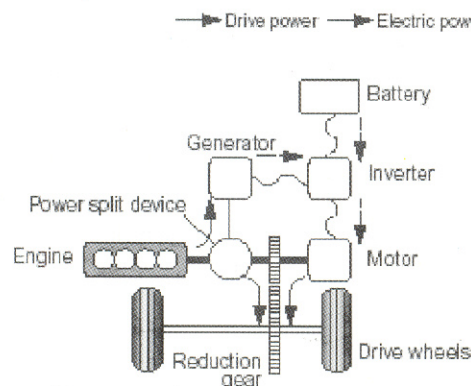
Series hybrid system

Parallel Hybrid System



Parallel hybrid system

Series/Parallel (Dual) Hybrid System



Series/parallel hybrid system (THS in Prius)

Characteristics of Hybrid Systems

Hybrid systems possess the following four characteristics:

1. Energy-Loss Reduction

The system automatically stops the idling of the engine (idling stop), thus reducing the energy that would normally be wasted.

2. Energy Recovery & Reuse

The energy that would normally be wasted as heat during deceleration and braking is recovered as electrical energy, which is then used to power the starter and the electric motor.

3. Motor Assist

The electric motor assists the engine during acceleration.

4. High-Efficiency Operation Control

The system maximizes the vehicle's overall efficiency by using the electric motor to run the vehicle under operating conditions in which the engine's efficiency is low and by generating electricity under operating conditions in which the engine's efficiency is high.

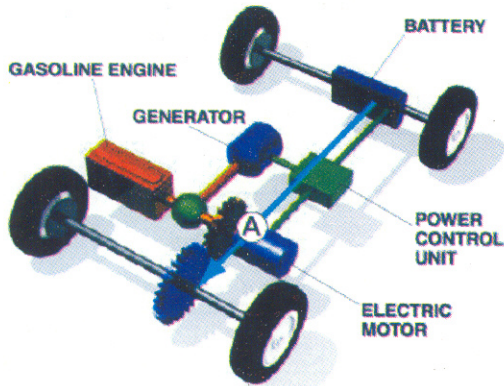
The series/parallel hybrid system has all of these characteristics and therefore provides both superior fuel efficiency and driving performance.

Modes of Operation*

1. At Rest

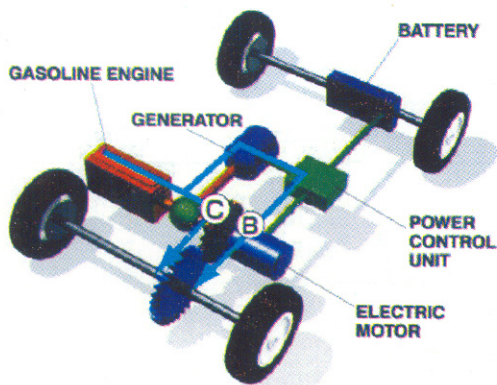
The engine stops automatically

2. Start and low to mid-range speeds



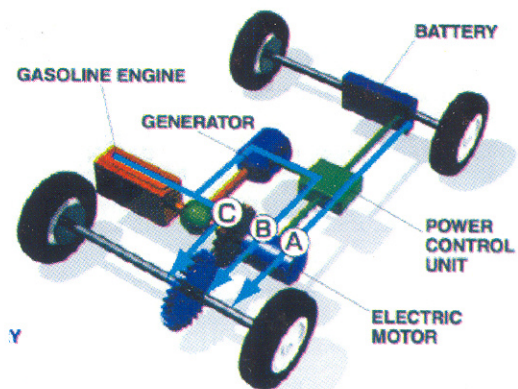
The engine stops when in an inefficient range, such as at start-up and in low to mid-range speeds. The vehicle runs on the motor alone. (A)

3. Driving under normal conditions



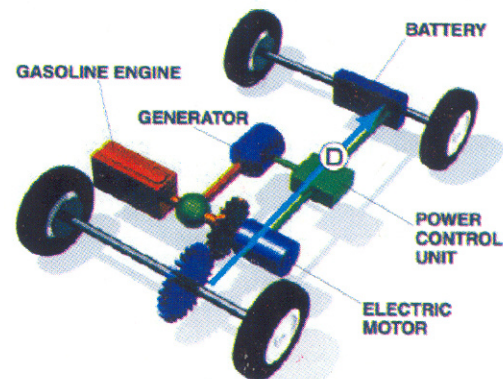
Engine power is divided by the power split device. Some of the power turns the generator, which in turn drives the motor. (B). The rest of the power drives the wheels directly. (C) Power allocation is controlled to maximize efficiency.

4. Sudden acceleration



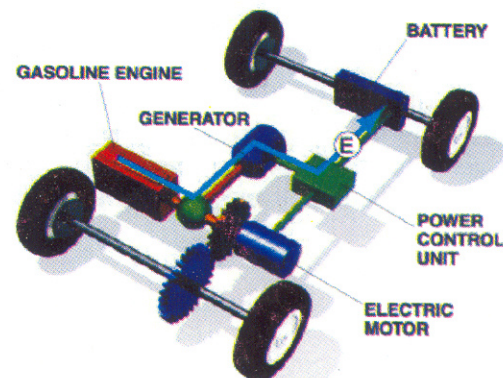
Extra power is supplied from the battery (A), while the engine and high-output motor provide smooth response (B+C) for improved acceleration characteristics.

5. Deceleration, braking



The high-output motor acts as a high-output generator, driven by the vehicle's wheels. This regenerative braking system recovers kinetic energy as electrical energy, which is stored in the high-performance battery. (D)

6. Battery recharging



Battery level is managed to maintain sufficient reserves. The engine drives the generator to recharge the battery when necessary. (E)

*Courtesy: Toyota Motor Corporation

Results*

I. Results Comparison Table for Indian City/Urban Drive Cycle

S. No.	Parameters	Conventional M 800	Hybrid M 800	%age Inc/Dec
1	Fuel Economy	15.15 Km/l	31.25 Km/l	106%
2	Overall efficiency	5.60%	10%	78%
3	Emissions CO	1.209	0.4	-67%
4	Emissions HC	0.248	0.391	60%
5	Emissions NOx	0.215	0.065	70%
6	Emissions PM	0	0	0%
7	Accel. 0-60 Kmph	9.9 s	5.5 s	44%

II. Results Comparison Table for Indian Highway Drive Cycle

S. No.	Parameters	Conventional M 800	Hybrid M 800	%age Inc/Dec
1	Fuel Economy	23.25 Km/l	51.63 Km/l	122%
2	Overall efficiency	12.20%	18.8%	54%
3	Emissions CO	1.123	0.4	-45%
4	Emissions HC	0.291	0.42	60%
5	Emissions NOx	0.274	0.033	87.9%
6	Emissions PM	0	0	0%
7	Accel. 0-60 Kmph	9.9 s	5.5 s	44%

*Results derived using ADVISOR simulations on Indian drive cycles

The redesigned Maruti-Suzuki 800 as a hybrid-electric vehicle significantly reduces greenhouse gas and other tailpipe emissions. It also boosts the fuel economy significantly by 106 % /122 % (City/Hwy) as compared to conventional counterpart. It also enables the HEV to maximize efficiency when possible and still retain the convenience and performance that accompanies its conventional counterpart. Due to the use of high power density batteries & lower capacity engine, the weight of the vehicle is not affected by introduction of two power trains. On a single tank of fuel (fuel tank capacity -12 gallons), and full battery SOC, the range of the car stands out to be 2345 Km on highway driving, and 1420 Km in city driving. Due to its lower emissions, the hybrid 800 falls under the category of SULEV emissions. The cost increment equals the cost of the conventional one. Although the initial cost increment appears significant, the fuel cost savings over the life of the vehicle will likely compensate for the additional cost. As a result, the lifecycle cost of hybrid 800 is equal to or lowers than the conventional model. This combination of efficiency, performance, and cost benefits makes Maruti-Suzuki 800 Hybrid an environmentally friendly, sporty vehicle with significant mass-market potential.

Steganography

Steganography is the science of hiding messages in messages. In ancient times it could mean tattooing a secret message on the shaved head of a messenger & letting his hair grow back before sending him into the enemy territory.

However, in the computer world, it has come to mean hiding secret messages in graphics, pictures, movies, or sounds. The sender hides the message in the low-order bits of one of these file types -- the quality degrades slightly, but if you do it right it will hardly be noticeable -- and the receiver extracts it at the other end.

Here's a rationale. If Alice wants to send Bob a secret e-mail message, she can use any of the popular e-mail encryption techniques available on the net. However, if an eavesdropper intercepts the encrypted message secretly; although he not be able to decrypt and read the original secret message, he will come to know that Alice and Bob are trying to communicate with each other secretly.

Steganography allows Alice and Bob to communicate with each other secretly as well as OPENLY. Confused? Alice can hide the secret message in a picture (say of two giraffes) and send it to Bob. Now, even if the eavesdropper intercepts the e-mail, all he will see is a picture of two giraffes. He will neglect it and consider it to be a joke. However, when Bob receives the message, he can simply extract the message from the image.

The point of steganography is to hide the fact of existence of a secret message. The very fact that two parties are communicating with is each other is hidden. Rather, they are assumed to be exchanging nothing else than innocuous messages.

However, we should implement steganography smartly. If Alice keeps sending Bob a picture of two giraffes repeatedly, an eavesdropper will certainly get suspicious and even may be able to crack / decipher the code. So Alice should be smart enough to use different images and send them regularly as if it's a trivial matter.

This form of hiding messages in messages has been practiced in ancient times, is still practiced, and has a great future ahead.

Consider a famous example of steganography implemented during the World War-II by a German spy.

Apparently neutral's protest is thoroughly discounted and ignored. Isman hard hit. Blockade issue affects pretext for embargo on by products, ejecting suets and vegetable oils.

Taking the second letter in each word the following message emerges:

Pershing sails from NY June 1.

This message was sent to the Germans which gave them knowledge about America's plans to depart their ship named Perishing so that they could attack it.

Now, let us consider **the realization of steganography in the field of computers.**

The image is enciphered using a discrete chaotic mapping function and a linear shift register. Then the enciphered image is hidden into a carrier image using the LSB method.

Method 1 : Cipherring / Decipherring

The cipherring process involves mapping a lattice of pixels (the image) onto itself in a bijective manner. To accomplish this mapping, we use a discretized generalized baker map we slice the image into vertical slices and stretch and fold these slices before stacking them up on top of one another. In

effect this creates a complex permutation wherein local and correlated pixels become uncorrelated and scattered across the image space. Extending the permutation into three dimensions, we modify our scheme to modify the graylevel of each pixels as they are chaotically mixed together. Therefore, any image, be it predominantly white or not, will be transformed into a chaotically-looking image with a relatively flat histogram.

Deciphering an image is merely the inverse of the enciphering process.

Method 2 : Hiding / Extraction

The hiding process involves modifying the least significant bit (LSB) of a carrier image to encode the pixels of the hidden message.

Extracting the hidden image is done by merely retrieving the LSBs of the carrier image and rebuilding the hidden image.

Hiding process also requires some thinking as you cannot hide your enciphered message in any image. An image with an uneven background is a good choice since it is difficult to differentiate between many of the colors in the background. Images with details and intricate designs or features should be avoided as the quality of the image degrades. Subtle color changes are preferable, but other color variances shouldn't be too drastic. One must consider the image in addition to such an image. Obviously, an image with large areas of solid colors is a poor choice as variances created from the embedded message will be noticeable in the solid areas. Avoiding such mistakes can help you improve your skills on embedding this image with text and graphic messages.

There are an infinite number of steganography applications. This paper explores a tiny fraction of the art of steganography. It goes well beyond simply embedding text in an image. Steganography does not only pertain to digital images but also to other media (files such as voice, other text and binaries; other media such as communication channels, the list can go on and on). Consider the following example:

A person has a cassette tape of Pink Floyd's "The Wall." The plans of a Top Secret project (e.g., device, aircraft, covert operation) are embedded, using some steganographic method, on that tape. Since the alterations of the "expected contents" cannot be detected, (especially by human ears and probably not easily so by digital means) these plans can cross borders and trade hands undetected. How do you detect which recording has the message? The receiver on the other hand can extract the deciphered message from the tape and decipher it to get the original message.

Passing of secret messages World War II, love messages, defence computer system coded language etc. all are various forms of steganography. In fact, the famous book 'Da Vinci Code' by Dan Brown has codes and hidden messages throughout creating mysteries depicts a beautiful illustration of steganography.

Steganography has its place not only in security but has various applications and forms. It is not intended to replace cryptography but supplement it. Hiding a message with steganography methods reduces the chance of a message being detected which is not the case with cryptography. However, if that message is also encrypted, if discovered, it must also be cracked (yet another layer of protection).

The main **achievements** of steganography are :-

1. The secret message has been transferred successfully.
2. The very fact that a hidden message exists is ruled out i.e. it remains hidden from the outer world that two parties are secretly communicating.

In and of itself, steganography is not a perfect solution to secrecy, but neither is simple substitution and short block permutation for encryption. But if these methods are combined, you have much stronger encryption routines (methods).

Siddarth Wighe

COE IV Sem.

DCE Trains Haryana and Punjab farmers on Biodiesel

A three-day training programme on production of biodiesel was inaugurated today at Delhi College of Engineering, DCE, by Prof. P.R. Trivedi, Chairman, Indian Institute of Ecology and Environment, New Delhi. 25 farmers from Haryana and Punjab, who are already growing *Jatropha (Ratanjot)*, are being trained to produce biodiesel from the seeds of *Jatropha (Ratanjot)*. The programme is sponsored by Petroleum Conservation Research Association (PCRA) of Government of India, so as to extend benefit of research and development in biodiesel at DCE to the farming community in the neighbouring states. Earlier, such a programme has also been organized under the sponsorship of PCRA at DCE for the Self Help Women Group of Orissa.

Biodiesel cultivation and processing holds high promise for the growth of rural entrepreneurship. India currently imports 2/3rd of its crude oil needs and pay heavily from its exchequers. The total consumption of crude oil in the country stands at 110 million tons per annum out of which, 33 million tons is produced in India from onshore and offshore oil fields. Cultivation of petro plants and growth of biodiesel entrepreneurship shall ensure self-reliance in the country in the coming years in the area of fuel oil.

DCE is carrying out extensive research on design and development of biodiesel reactors and biodiesel utilization internal combustion engines. Biodiesel reactors of various capacities like, 10 ltrs., 50 ltrs. and 100 ltrs. have been designed and developed by DCE. A TATA Indica car is already running on the roads of Delhi powered by biodiesel produced by DCE. The 3-day Training Programme shall equip the Haryana and Punjab farmers with necessary technical skills to install biodiesel reactors in their villages and produce biodiesel for their local consumption to run gen-sets, tractors and pump-sets. This way, the biodiesel mission shall help solving the current problem of electricity shortage in the rural area. Biodiesel cultivation and production should be pursued as a national mission with premier educational institutions such as, DCE contributing to the development the state of art technology to facilitate the growth of biodiesel production capacity in the country. DCE has created the desired demonstrative effect in this respect by planting 2500 saplings of petro-plants such as *Karanja* and *jetropha (ratanjot)* within the campus and by designing and developing biodiesel reactors. The DCE Research Team is running gen-sets and also a biodiesel powered vehicle.

The farmers from Punjab and Haryana were highly excited to see the biodiesel laboratory of DCE as also its plantation of petro-plants. Prof. Trivedi, in his inaugural address, opined that the biodiesel programme shall solve the twin problem of energy shortage and environment protection and shall generate enormous potential for rural employment. Prof. P.B. Sharma, Principal, DCE, Dr. R.K. Dua, Chief Research Manager of PCRA, Maj. General R.K. Kaushal, Consultant, DCE, Shri Chand Bhardwaj from Aero Energia, Shri Naveen Kumar, Coordinator of Biodiesel Programme, Prof. O.P. Mishra, Emeritus Scientist, Delhi University and member of faculty and students in great number were also present at the inaugural function.

The farmers attending the training programme have taken up the mission of biodiesel and said that **Tel Banega Jhhari Se Nahi Aaiga Khari Se**. These missions will become a reality only if biodiesel cultivation and biodiesel production is taken up at the national level, said Prof. P.B. Sharma, Principal, DCE and Chief Coordinator of the Biodiesel Research Programme.

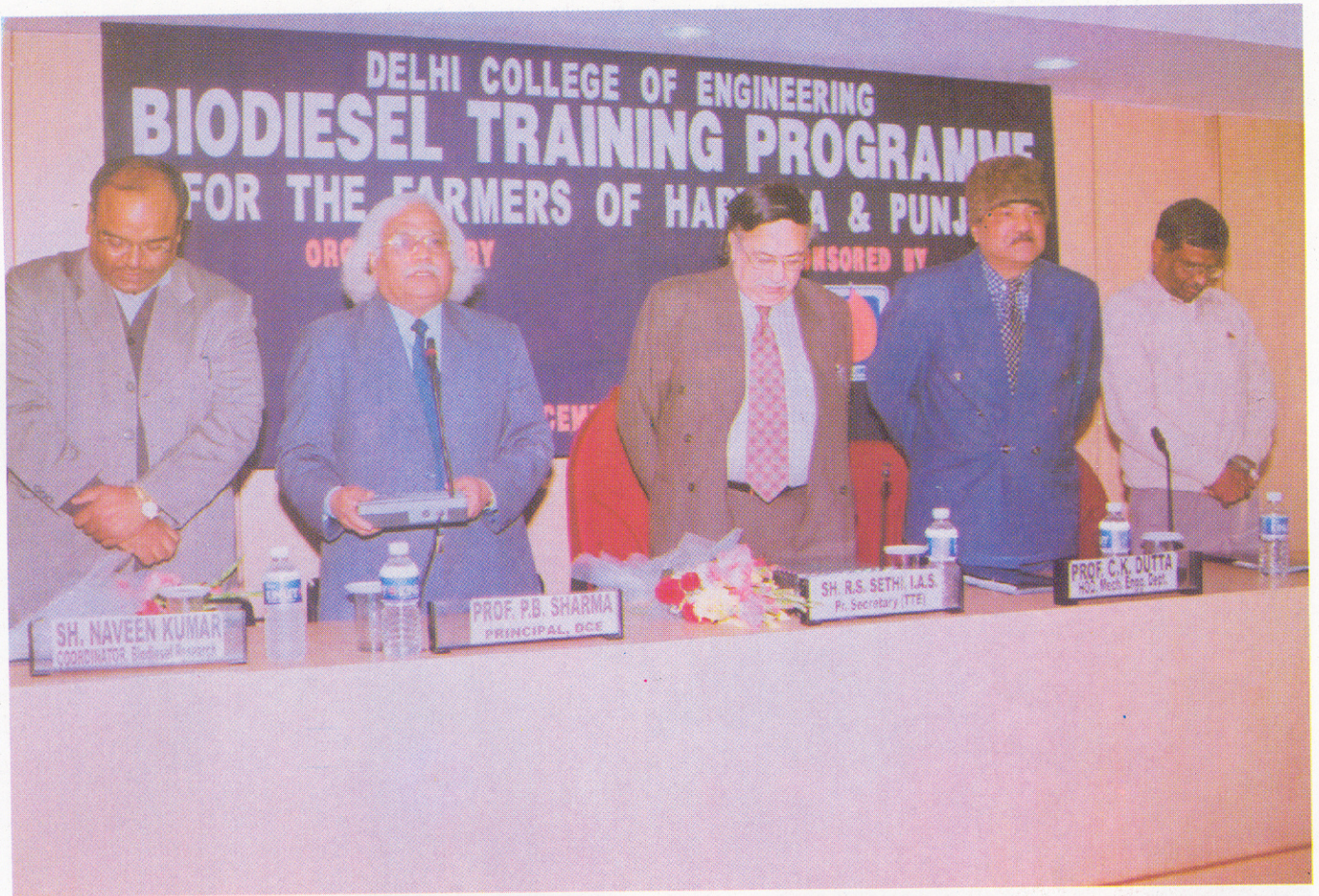
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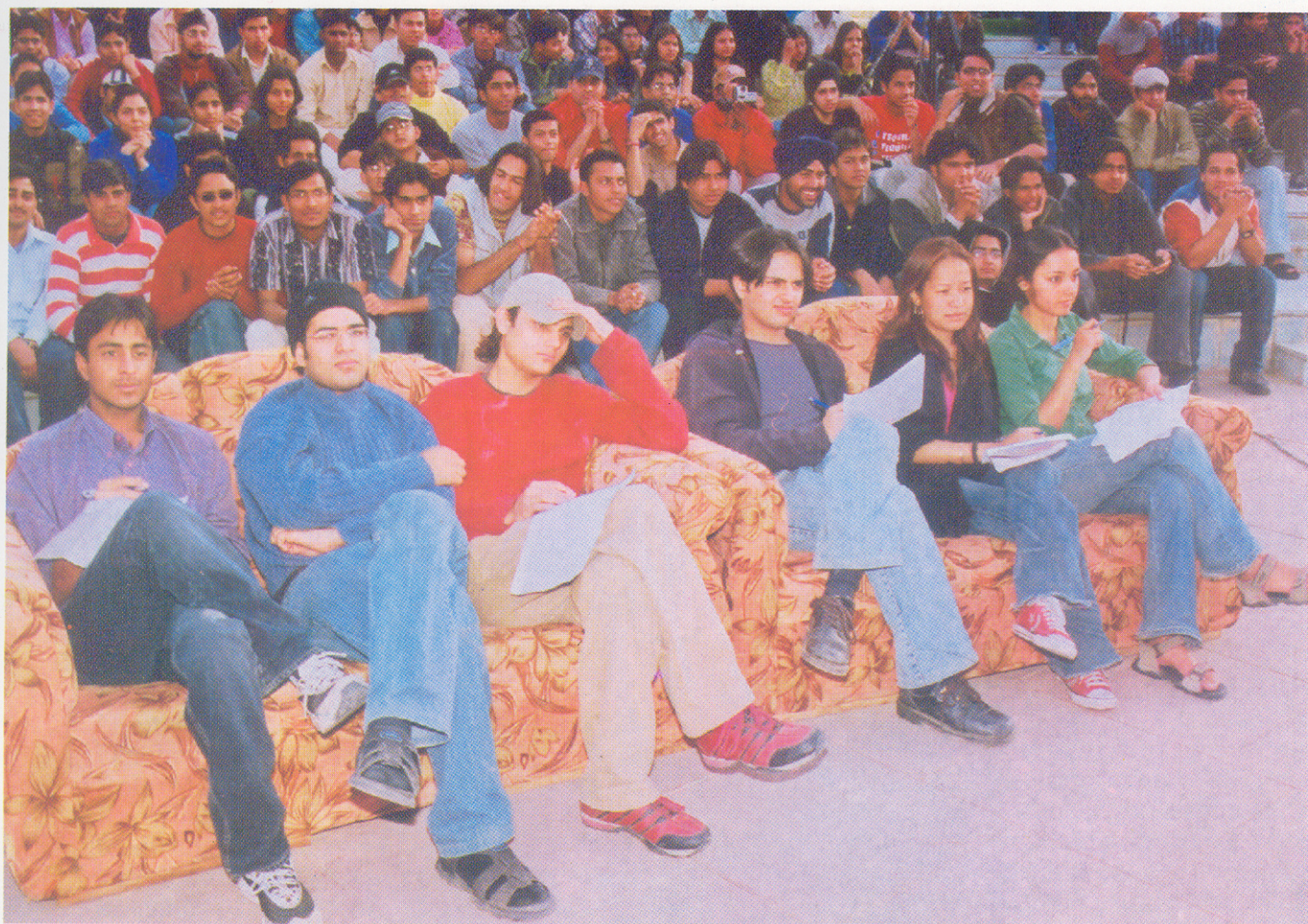














College Buzz !!

ACADEMIC ACTIVITIES

Delhi College of Engineering is highly dynamic and vibrant in its beyond the class rooms programs under CEP. The college has organized following programs during the academic session 2003-04.

1. "Enhancing Competitive Edge of Graduating Engineers: A Corporate world Perspective" on August 30, 2003 was organized by the Department of Training & Placement focusing on (i) HR requirement of corporate world, (ii) Opportunities for GE for employment, (iii) Projected growth of employment for GEs in future, (iv) Professional skills & personality traits that employers look for in GEs, (v) Grey areas the GEs should attempt to rectify to enhance their employability, and (vi) Strategies to strengthen the training programs. The Important Speakers who delivered keynote addresses and lead GDs include Er. T.R.Dua, Director(CR) Bharti Telecom, Er. A.K.Saini, GM(HR)NDPL, Ms. Hema Malhotra, Head-Training, HCL Perrot, Mr. McCleen Ralphae, VP, Prof. D.Goldar, Principal. More than 300 students participated in the program, which is coordinated by Prof O.P.Sharma, Head T&P department and Dr. R.C.Sharma, Dean, academics.
2. Center of Excellence of Techno-entrepreneurship Development organized THREE "Entrepreneurship Motivation Program" during September 12-13, 2002, April 17-19, 2003, and October 31-November 2, 2003. The programs focused on **Technoentrepreneurship in new age**; Role Models & case studies; Qualities of a successful entrepreneur; Setting achievable goals; Knowing strengths & weaknesses; Inculcate initiatives & risk taking capacity; Responsive to feedback; Promote innovation & creativity; Time management, quality orientation; Profits & losses; and Good communicative skills. The program was attended by 180 students of the college of different branches of engineering. Dr. K.P.Nyati, Head, CII; Dr. D.K.Baxi, HRM, Luxur Parkar; Sh. Pankaj Mahendroo, President, ICA; Er. G.S.Batra, MD NUCON; Er. P.Prabhakar, MD, ECO; Prof. N.K.Chadha, Delhi Univ.; Dr. R.C.Sharma, DCE delivered keynote addresses during the program. The EMP was coordinated by Dr. G.L.Verma and Dr. R.C.Sharma.
3. Orientation Program for the faculty members of Engineering & Technology Institutions was organized during September 16-17, 2003 under the guidance and leadership of Prof P.B.Sharma, principal. The program focused on Quality Technical Education, IT in Technical Education, Problem Solving Capabilities, Laboratory Excellence, Self Development, Communication Skills, Innovation & creativity in TE, Motivation & Leadership, Educational Utilities Standardization, Research Culture at UG level, Engineering Education tomorrow. 125 newly recruited teachers from various engineering colleges participated in the orientation program. Hon'ble Dr. K.Venkatasubramanian, Member, Planning Commission, Prof. N.R.Chatterjee, Former Dean, FMS, Sh. R.S.Sethi, IAS Pr. Secretary, DTTE, Prof. S.K.Khanna, Former Chairman, AICTE, . Prof. P.B.Sharma, Principal, DCE, . Dr. H.P.Sinha, Ex. Secretary, ISTE, Prof. A.Moubeen, Dean JMI, Prof. N.K.Chadha, Delhi Univ, Prof. V.I.K. Sethi, RGTU, Col P.M.Das, Advisor, RGTU, Prof. B.P.Singh, Former Dean, DSE, Dr. A.N. Saxena, WAPS, Er. Suresh Gupta, PBIV, Prof. Pramod Kumar, Prof. A.K.De, Prof. R.C. Sachdeva and Dr. O.P. Sharma delivered keynote addresses during the program. Dr. R.C.Sharma and Er. Naveen Kumar coordinated the program.
4. Round table conference on "Engineering Education Tomorrow" was organised in December 2003 which was inaugurated by Prof. C.S. Jha and Keynote Address was delivered by Dr. Ashoka Chandra, Former Advisor, Ministry of HRD.
5. ISTE Foundation Day & Annual Convention of ISTE Delhi Section "Engineering Education Tomorrow : Challenges & Prospects" was organised on May 21-22, 2004.

PROFESSIONAL SOCIETIES AT DCE

Delhi College of Engineering is the only institution in India having 6 Students' Chapters of International Professional Societies in Engineering, which include IEEE Students Chapter, IEE Students Chapter, SAE

(SOCCE), National Foundation of Engineers(NAFEN); Society of Polymer Engineers & Chemical Technologists(SPECT); Indian Society of Environment Engineers(ISEE) are highly dynamic and vibrant. These students' chapters play pivotal role in developing organizational skills, professional aptitude and team spirit in the students, transparent interface and intimate partnership with the industries, and academic, professional and R&D interactions with the other academic institutions

TROIKA-2004

IEEE students Chapter of Delhi College of Engineering was established in 1982. The IEEE-DCE Students Branch is having 150 registered members, the highest one all over the World; Mr. Manan Bindal is the Chairman and Mr. Tushar Agrawal is the General Secretary for academic session 2k3-2k4. IEEE-DCE Students Branch organized large number of events which include Resonance, Tech week, Trips to MMRC, BHEL and Jaipur, Mock Management Entrance, GRE & IQ tests and the TROIKA, the annual technical festival being organized by the student members of IEEE, TEE and CSI. TROIKA is considered one of the best technical festival in India and attracts participation from over 500 engineering colleges all over India. The major events during TROIKA include Technovision (Technical Paper presentation), Envision(Software Presentation), Brainwave(hardware design competition), Panache(MM Quiz), Bits & Bytes (design and programming contest) and tons of jazzy informals. 2k4 TROIKA attracted participation from business schools, humanities and commerce colleges also. The inaugural session of TROIKA-2004 headed by Mr. Amitav Mullik, Member NSA Board, Dr. K.Subramanian, DDG & IT Advisor, GOT and DR. O.P.Chabra Fellow IEEE. Trigger, Iota and The Troika Times are the main publications of technical festival. IEEE received AT&T Bell lab award. Mr. Rajat Garg, the Chairman of IEEE students chapter has won Larry K. Wilson award for the best student chairman for the year 2002. Prof P.Kundu got the Best branch Counsellor award. <http://www.dcetech.com> got 2nd prize for best branch website in Asia Pacific region.

MACH-2004

The SAE collegiate chapter of Delhi College of Engineering was started in 1995. For the last few years SAE-DCE has been the largest student chapter of world and has also been winning the Best Collegiate club under the dynamic leadership of Prof. S. Maji who is the only Indian Faculty Advisor to receive Ralph R Teetor award.

“Seeing is being” goes an age old saying but thanks to numerous “Informative Industrial trips” and educational seminars organized by SAE-DCE. SAE-DCE organized Chimera-2004, a national level design contest in which the students had to design a Hybrid bus compatible with the city conditions. The two events consisted of a quiz competition, display of electric car REVA and a workshop on “Engine disassembly assembly” by Maruti Udyog Ltd.

SAE- DCE actively helped in the organization of SAE International Mobility Conference attended by top automotive technical brains of the country as well as abroad. SAE-DCE had organized numerous trips of which Maruti Udyog Ltd., Indian Railways, TRTC, NTPC are a few to name . Technical sessions enriching the students about recent technological advancement was held by Loctite and Castrol. The technical head of Castrol Lubricant section had exclusively flown down from Mumbai to increase the technical know-how of the students.

SAE-DCE is the only collegiate chapter of India from which students participate in MINI BAJA South Africa and Formula student UK the international competitions organized by SAE. Resistance the MINI BAJA team was placed 10th of the 38 participating team and also won the 1st prize at the International Mobility Conference. SAE-DCE Formula Student team won the FISITA award for Formula Student racing car in U.K. and was placed 30th of the 58 participating team. SAE-DCE will again participate in these both international competition and hope to win laurels for the country by their best performance.

The dynamic and vibrant members of SAE and ASHRAE every year organize their Annual Technical Fest named-MACH-2004. “MACH-2004” is the annual technical festival of Deptt. Of Mechanical Engineering, DCE which was graced by Mr. K.K. Gandhi Director SIAM, Mr. Sudam Maitra MUL etc.

TECHNODROME-2004

SEM Student chapter was established in 1998 with 10 members, which have grown to over 300 members presently. 'The Annual Technical Festival'-TECHNODROME was organized from February 17-19, 2004 by members of SEM and SOCCE. It consisted of SYMPOSIA-company presentation, PARADIGM-model making competition, PAPYRUS-paper presentation, MOSAIC-environmental design competition, KEN-multimedia quiz, and VIVERE-the life cycle assessment. The TECHNODROME team comprises of Mr. Tanmay Kumar as Chairman; Mr. Sumit Popli and Yatish Agrawal as Vice Chairmen, Mr Hitesh Malhotra as General Secretary and Mr. Ropan Bhattacharya as the Treasurer.

CROOSLINK-2004

CROOSLINK-2004, the annual technical festival of polymer science and chemical technology students is organized by the members of SPECT. The team of Mr. Sharvan Kumar Singh, Chairman Mr. Mohit Lohani, Vice Chairman, Mr. Sanjay Mohta, General Secretary, Mr. Gaurav Singh and Mr. Yatishwar Anand played pivotal role in the organization of 3 days highly vibrant COLIDEA (Student-Industry Meet), DEEPMUSING (Polymer industries Presentations), BRAINBEAT (MM Quiz), EXEGESIS (Technical paper Presentations), PANACEA (Business plans), DIPOLE (Public Speaking Competition) and AL-FRESCO (Cultural festival). 30 professionals from institutions and industries shared their experiences in polymer science & technology with the students of polymer science & chemical technology. Over 100 industries participated in the festivals. The winners of competitive events won Rs. 21000 prize money.

COLLEGE CULTURAL FEST - ENGIFEST-2004

ENGIFEST-2004, the unprecedented cultural extravaganza, an unmatched show, a perfect blend of stimulating competitions, professional shows and the collective efforts and dedication of all the DCEites could be witnessed in the Annual Cultural Fest of Delhi College of Engineering during February 26-29, 2004.

It was excitement, tension, love, romance, winners and broken hearts that filled the already misty airs. Engifest-2004 opened with Kavi Sammelan where audience laughed its way to glory up to 3.00 a.m. 27-02-2004.

SPANDAN-the choreography show was held in OAT. No place to sit or stand. "PARIDHAN" the fashion show attracted people from all over Delhi Colleges and schools too. For the inquisitive ones, there were quizzes on various topics; for the Hindi literary minds- DARPAN, and for English literary minds- METAPHOR. Western and Indian music contests were given due respect. For the real cool ones, there were large number of INFORMALZ- Antakshri, Debates, Telematch, Egg catching, Blind date, Mr. and Ms. Engifest and Quest. Rock show witnessed the performance of noted bands from all over India, all the participants drowned themselves in 40kW of electrifying music. Coca-cola star nite experienced the real dance with Nitin Bali and Taan.

The team of Engifest worked under the guidance of Prof. Naveen Kumar, Chairman Cultural Council with Ravi Bansal, the President; Sanjeev Kumar Singh, the Vice President; Vikas Meena, General secretary; Ashish Verma, Addl. Secretary; Pratush Thaku Chief Convenor; Rohit George, Cultural secretary; Rohit Raj, Engifest Coordinator; Varun Bajla and Rajansh Miglani, the Central Councilors

SPECIAL EVENTS

Husband of Kalpana Chawla Mr. Jean-Pierre Harrison and the NASA Team consisting of L. Kalpana Chawla in an earlier space flight visited Delhi College of Engineering and presented Kalpana Chawla NASA Career Presentation in the form of 40 CDs and a signed portrait of Kalpana Chawla and her Astronaut colleagues.

Editorial Board

Prof. P.B. Sharma (Principal DCE)

Mrs. Saroj Bala (Staff Advisor)

Student Editors

Arnav

Abhishek

Pulkit

Pritam

Pradeep

Preeti

Sunita

Shashti

Varun



3rd row (left to right) : Pulkit, Arnav, Prof. P.B. Sharma (Principal, DCE), Mrs. Saroj Bala (Faculty Patron), Abhishek, Sunita
2nd row (left to right) : Varun, Preetam, Preeti
1st row (left to right) : Pradeep, Shāshti



<http://www.dce.edu>

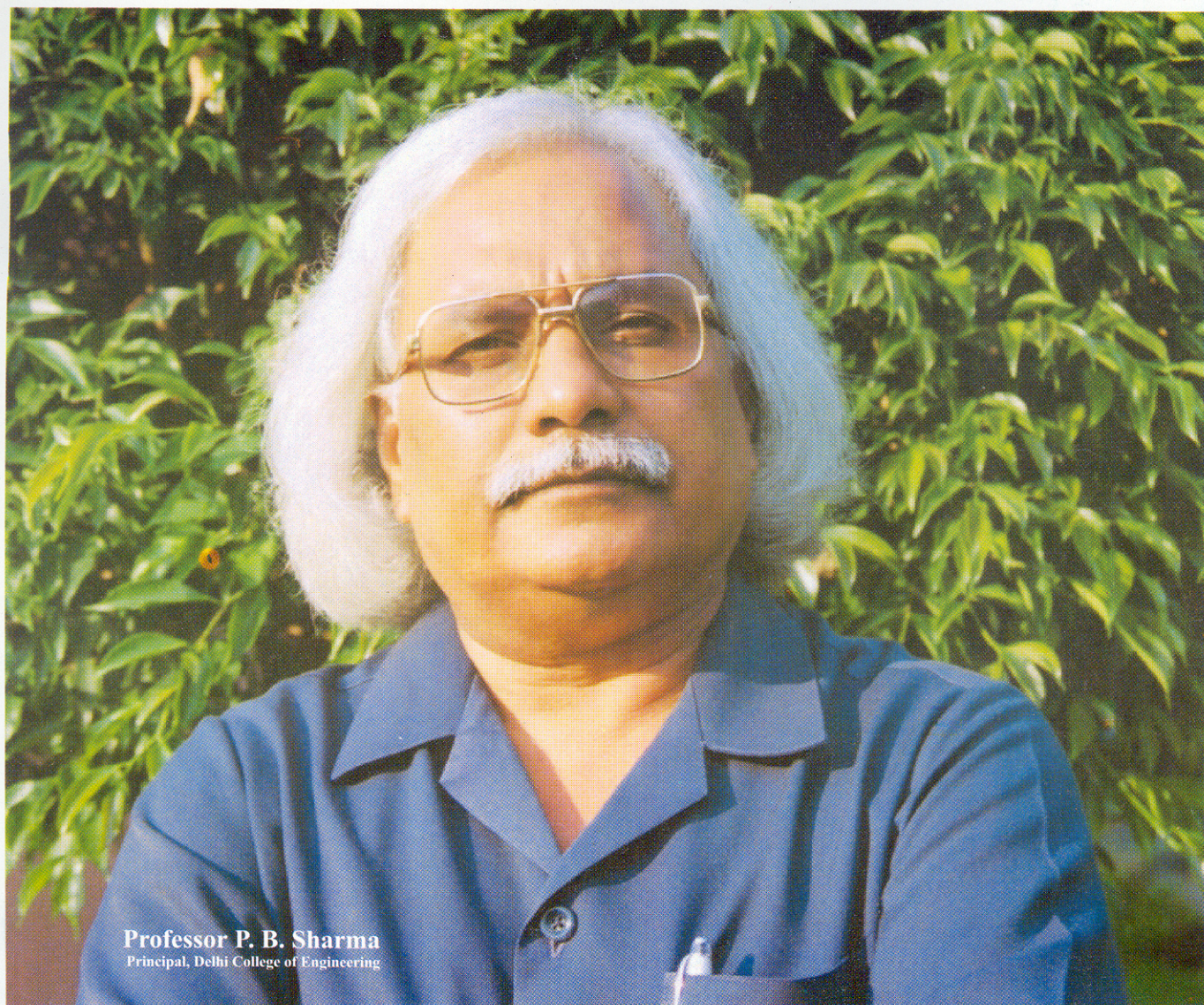
Photograph by : DEEPAK, Tel.: 9868558777



As a forum for presenting student's views and creative efforts REVERIE this year reflects the zealous endeavour of our students and portrays a gamut of activities and achievements of the college. Under the dynamic leadership of our principal, Prof. P.B. Sharma, college has occupied a position among the top ten engineering colleges of our country. His sapient efforts are leading the college to reach greater heights. Team REVERIE is specially thankful to sir for his kind support and encouragement.

While editing a student's magazine is something one normally looks forward to with pleasure, it was not undiluted joy this time. It is a matter of regret and disappointment that some members of students editorial team did not work properly. I hope next year students will be sincere enough to work hard because success is not adventitious but the result of unfeigned toil.





It is not easy to convey the character of a college that has been built over the decades, nor is it easy to appreciate DCE's vitality from a distance. It is with the purpose of bringing to life the beautiful campus, the truly well engineered buildings and of course the sense of spirit that makes the college unique, that the college magazine Reverie has tried to bring out. DCE is an engineering school that has carved its own niche – ranked in the top ten engineering schools of the country. The truly eclectic student community of this college has to its credit Formula Car and ATV's. The college has been the front-runner in developing Biodiesel fuel for a greener environment—which we feel is our moral commitment to our society.

DCE inspires in its students a sense of innovation; a sense of thinking big and most importantly thinking outside the box! Apart from a firm academic grounding, we have a long tradition of intense involvements with extracurricular activities: arts and athletics, drama and music, religion and spirituality. DCE students learn habits that encourage them to become responsible citizens of the nation, and the world.

I take this opportunity to congratulate the entire editorial team Reverie for their efforts to bring to life the college in all its myriad colors, as we know it...

I sincerely hope this magazine is helpful in capturing and conveying something of DCE's truly distinctive identity and its character!