

CAMPASTIMES

only news that's fit to print...



No. 3

IIT MADRAS

January 1980

THE NINTH TIME!



WELCOME BACK!

INTER - IIT

LOG BOOK

Statistics will show that in the dusk of '79, IITM won the inter - IIT General Championship for the 9th time running But what they will give no indication of is the blood, sweat, tears and brandy that made it possible! To give you an insight into what went on, excerpts from only three of our bulletins are reproduced below. (Space limitations confine us!)

No 2 14 December 1979

We refuse to start with poetry We are sportsmen, not poets Its prose, prose all the way for us, for, you see, we're pros. At the winning game, we mean!

Like somebody asked. Who was the find of the last cricket series against Australia? Some said Yashpal, others Yadav. A few even said Doshi. But Gavaskar said: Mohammad Ghouse.

Question: What can a 'good' referee do in hockey?

Answer: He can make even IITD win!

By the way, some people have this desultory habit of fastidiously covering only their matches and of them, only those they won. Some host mag! Sorry, we thought we were writing in Tamil! It should read as Some host magazine!

IITD, in all its magnanimity, has fixed its Basketball match against us bloody late in the evening. We accept it as a challenge. We'll still beat you at it! P.S. Bradman never made even one of his 29 centuries in Siberia, but would definitely have, had he been asked to do so by IITD.

We are extremely sorry about the way in which the Delhi Madras hockey match was conducted. There was this guy in the IITD team, as the word went around in awed whispers, had been invited for the World Cup. This ancient fossil, who looked more like Dhyan Chand's grandpop deliberately and savagely attacked one of our players. Rotten display. No wonder India is not a direct entry to the Moscow Olympics! The Sardar in the blue sweater may feel almighty; offended if we overlook him. We scribes were part of a gathering which was witness to a real bizarre scene. This reverend Sardar, who only last year, had walked out of the Bombay meet with his team, insulted our coach in no mean terms for scenes both the Delhi and Madras chaps were responsible for. Only a little bit of sanity on our part, helped the Sardar retain his turban.

SPOT NEWS: We had Alu for lunch and dinner yesterday and the day before. We're lucky we don't get Alu for tea.

It's really sad that our hosts cannot take a healthy jibe or two in their stride. Stoppage of duplicating facilities by the so called BSP Production crowd was downright petty and goddamned stupid. Don't tell us you guys can't stand competition. Come on, babies, buck up. Take things easy.

Heard in passing
Gentlemen A: How come Madras freaked out today?

Gentlemen B: Probably they smelt the brandy in Prof. Anantaraman's flask!

No. 3 15 December 1979

Cock-a-doodle-doo. Organisers, wake up. Brush your teeth, put on your trousers and see what's going on around you. If a nincompoop is bad enough, a nincompoop with misplaced interests is worse. Such a one yesterday put up a notice preponing the KGP-MDS hockey to 1415 hrs. The notice came up only in one Hostel and that too only a short while before 1415 hrs. Panic reigned. The Madras players put their foot down and refused to play before the scheduled 1515 hrs even though one walkie-talkie beauty kept insisting on the validity of the 1415 notice.

COMPREHENSION:

Read the following passage carefully and answer the question below.

We shift from the courts we've played the first two matches to the courts where Delhi's been playing all along for our match against them.

The height of the nets at the two volleyball courts is

- (a) the same
(b) different **ANS. (b)**

REQUESTS 1) Bring on a junior referee who has more guts and sticks to his call.

2) Have line umpires, please.

3) Don't use toilet paper for scoresheets.

OBSERVATION When Moses moved, the KGP team parted like the Red Sea! Murderer Moses!

Our special thanks to the Delhi people for giving us the privilege of watching 'Hera Pheri' festival entry at Venice and Cannes and a Lenin winner at Moscow. Saira Banu's performance was a treat. Little wonder then, that she got an Oscar nomination that year against Vanessa Redgrave and Jane Fonda (Both for Julia) and Diane Keaton (Annie Hall). Thank you once more Delhi! If you are looking for more such quality films, may we recommend Adalat Charas, Hum Tere Aashiq Hain (tipped to take the Golden Bear this year), etc.

You're liable for arrest if you show one more of those sports documentaries. About 300-400 worthies landed up at a Jwala common room designed to take up a load of only 50 civilians or 30 weightlifters (whichever is less). No wonder that only 30 people said the movie was ridiculously bad. The rest couldn't see it at all. Lucky they!

Javed by scoring that goal and KGP by losing have put us on the chase again. Good show gentlemen. Carry on in the same vein and who knows, a flask may greet you after your match.

CAMPASTIMES

XVI INTER - IIT MEET

'Man of the Day' Awards

12/12 V³

13/12 AFZEL NOORE

15/12 HSS MANI

16/12 ABHIJIT BISWAS

'MAN OF THE MEET'

AWARD

Shared by

Prof. K. BALARAMAN & J. KAMATH

No 4 17 December 1979

By the way, we've won the General championship. At this supreme moment of triumph and pristine glory we have nothing to cavil about. A feeling of bien-etre prevails. 'God's in his heaven and all's right with the world' are sentiments which find an echoing chord in our breasts. After five days of fierce and bitter struggle with constant vying for supremacy, the meet is drawing to a close. All the battle cries and slogans are fading away, only the memories linger. The vicissitudes, the constant tension, the aesthetic beauty of physical activity at its creative peak—yes, we enjoyed it all. We would not be remiss if we quoted Baron Coubertin here: The important thing in life is not the triumph but the struggle.

Our heartfelt condolences to the near and dear ones of Sri Divakar Reddy who, at the tender age of 20, kicked the bucket late last evening. (Sic)

We are doing all in our might to arrange for artificial resuscitation equipment for the Delhi people, for their Pulse seems to have died down completely! Only a PratiPIMP seems to be hovering about, an apology for a once-proud monument which vindicates the adage. The one-eyed man is king in the land of the blind. But adieu. We are going back to the land where men are men, where literary competition is at its rosy peak; where petulant dirtwater tactics are never used to keep out competition.

Our coaching camp will begin sometime in December '80. You're always welcome, Pulse, Bimb et al. We'll charge you less than 13 bucks a day. Please make it a point to give in your Alu requirements so as to reach us by Nov. 15 latest.

And there was this case of the two walking talking Pulse reporters. At the Madras-Delhi football match one asked the other: What's the score? The other replied: 133 for 4. Not satisfied they went to 'Smashing' Rina. She howled. Idiots, this is the boxing arena.

Delhi badly missed the services of Beckenbauer and Pele. Otherwise, they could have at least drawn level with us. Who knows?

We were unfortunate enough to have a sneak preview of 'Daily Noise', the Bombay mag threatening to come out in the evening. True to its title, all fart and no shit. Kasturi, beware, you've got it coming from them.

Congrats boys, you've done it again. Habits die hard and we've got into the winning habit. Congrats to Prof. Balaraman, Prof. Anantaraman and all our PTI's and coaches. Looking forward to completing our VICTORY DECADE at Kanpur, we say goodbye for now.

The following is reprinted from "TOIKE-OIKE", the undergraduate Newspaper of the Engineering Faculty at the University of Toronto.

By OUR PUBLISHER, Dr. R. NATARAJAN, COMBUSTION & THERMODYNAMICS LAB.

HOW TO LECTURE EFFECTIVELY

The beginning of the lecture serves to create the atmosphere of the whole, hence it is imperative that from the very start you make it known once and for all that you are Top Dog. This may be done in several ways.

The most direct approach is to start the lecture five minutes early, before all the students have had a chance to arrive. This automatically establishes you as a "Let's not mess around" type. Any dissenting murmurs can be subdued with a mumbled "We have a lot to cover, and, anyway, you missed a lecture at Thanksgiving." The beauty of this method is that it can also be used to make students feel guilty and ill-at-ease. This is done by waiting until the rest of the class starts straggling in and, when the inevitable floor-board creaks, turning around, surveying the class with an icy stare and then mumbling something like " . . . don't mind .. coming in late..... .. but some people more considerate....?"

Another very effective opening is to describe the traffic jam coming down from the house and to follow this with some derogatory remarks about the traffic police or the automobile manufacturers. This invariably sets you up as a good joe, an all-right guy, and "quite a character, eh?"

A technique favourite among lecturers of subjects connected in any way with mathematics consists of coming in early, standing at the board with the back to the class, and manipulating with very complicated mathematical expressions. These are rubbed off about a minute before lecture time, but by then most of the students will have seen them and a general feeling of apprehension will have been created. The lecturer is then looked on as the one who will translate these hieroglyphics of higher learning for the academic cavemen of the class.

In delivering the lecture you should keep in mind that the mode of delivery depends on the subject matter. In general, subjects can be divided into three branches; the difficult, the tricky, and the easy. These are further divided into the largely boring, the mildly interesting, and the very interesting. However, because of the very rare occurrence of the latter category, the discussion here will be limited to the former two.

(a) Difficult, largely boring

These subjects constitute a high percentage of the work done here. It is vital that the lecturer not enter into a discussion of the topic with any individual student. This can generally be avoided by covering the

material at a rate so great that all of the class' attention is focused on the bodily transfer of the work from the board to the notes.

Sometimes, however, a question is asked. In this emergency the following treatment is recommended:

1. Ignore it.
2. Look disgusted. This often makes the student feel self-conscious and may result in his utter defeat immediately.
3. Repeat what you have said in the last five minutes, but do it in thirty seconds.
4. Start discussing a completely irrelevant point.
5. Bring him to his knees by inferring that he is an idiot, e.g.: "But after all, Mr. Guggenkopf, isn't two plus two just four?"
6. Make the student repeat the question several times while you look at the class with a pleading expression. This suggests at once that he mumbles, does not enunciate, or cannot express himself clearly.

NOTE: In the case of foreign students this method should be used first.

7. If there seems to be no other way out resort to the technique involving "Thanksgiving" already mentioned above.

(b) Difficult, mildly interesting

This category includes a fairly large number of subjects which require blackboard presentation. Although the methods discussed for (a) find wide application in this field, the content of this section will deal mainly with the cardinal topic of black-board technique.

Two separate cases occur here:

1. Good text-book is readily available.
 2. No single text covers the work
1. Since it is necessary to give only supplementary details on the board you have here a golden opportunity to assert your personality. The most important characteristic to develop is the writing. It should be small, especially effective in big rooms, and hovering on the brink of illegibility

A most brilliant example of originality in this field was first reported just a few years ago. It consists of stating a lengthy law in one breath, looking disappointed when several cries of "Uhhhh?", "Whazzat?", "What the" are heard, walking over to the board with a resigned expression, and with great dignity writing:

NEWTON'S LAW OF
UNIVERSAL GRAVITATION

T f o a b t m v a t p o t m a i a t s o t d b t

To see the blank expressions on their faces before somebody figures out "The force of attraction....." is one of life's rare little pleasures.

Another gratifying result is obtained by writing a complicated expression on the board and then with a chalk eraser rapidly wiping and altering inverting and cancelling until the answer is arrived at. This will inevitably bring great cries from the students. You can interpret them as signs of admiration for the rapidity of your mental processes.

2. In this case it is necessary to provide a reasonable amount of information by means of the blackboard.

One highly recommended procedure for keeping one step ahead of the class consists of commencing to write immediately on coming in and continuing to do so until the very end of the lecture. The writing should be accompanied by a running commentary into the board, enunciation should be limited to the result of any sequence of operations described.

e.g. "...m]pycrossringlefsinvidngbtwofrens hateonce-get x l"

Another popular method is the WPTT procedure. The technique consists of the above with addition of stepping back, looking at the board, stepping forward, writing another line, and saying ".....which proves the theorem." Fifteen seconds later the boards are wiped clean. Ensuing questions are treated as per (a) above. The psychological effects of this on the students are too obvious to warrant discussion.

When properly used, the black board eraser can be an effective tool in establishing the lecturer's superiority. Great effects have been achieved by not erasing the previous work completely and writing between the smudges, not erasing the previous work at all and writing on top of it, erasing each line fifteen seconds after it was written, putting extra lines in the middle of completed sections preferably on an angle, and writing on a wet board with hard chalk.

(c) Tricky, largely boring

Here it is often necessary to explain some obscure point to a student. However, this can also be used as a tool to affirm your superiority over the class. In preference to the methods outlined in (a) we suggest the "further research" technique,

Continued overleaf

The further research technique consists of repeating in a paraphrased form your statements of the last three minutes and then of immediately qualifying them by (1) describing how Oppenschwetter at Princeton had already spent four years studying this point; (2) listing six references, four imaginary, 'Very good on this sort of thing', (3) reminding the class that this was simply another theory and was probably no better than that put forward by Ponsonby and Fotherington-Hyde twenty years previously. Or, if no ready explanation is available, assuming a resigned expression and saying that 'If you question this you might as well start counting on your fingers again.' Whichever method you use be sure to finish it with a sweet 'I hope this answers your questions'.

This method has the advantage of setting you up as an individual well informed in his field, a walking bibliography, a philosopher of sorts, and a nice person.

(d) *Tricky, mildly interesting*

Two techniques of cardinal importance in this field are good blackboard diagrams and effective text references.

There are two classes of diagrams, the qualitative sketches and the dimensioned quantitative drawings. It is important that all qualitative sketches be done with hard chalk, with several systems of shading, at least three kinds of broken lines, and properly proportioned lettering. Doing this sets you up as a person painstaking in details, a perfectionist who spares no effort, a neat, tidy, well-organized individual. You can further increase the beneficial effects of this by passing it off as a "mere sketch just to give you an idea, you know", "a simple line diagram", "a rough idea. Don't copy it down; you can do much better on your own". Saying something of this sort not only shows your disarming modesty but also presents the class with visions of red pencil lines across their best, if not quite as practised, graphical endeavours.

The quantitative drawings require a totally different attack. They can be done either with very soft chalk and thick lines or with

very faint lines drawn with hard chalk, especially effective on ground glass boards.

It is absolutely essential that rulers, squares compasses not be used as this may suggest that you cannot cope with the subject without outside help. All symbols should be Greek, with emphasis on the less widely recognized letters. This induces thought among the students and leads to a better appreciation of the Classics. If at all possible, one symbol should be used for more than one quantity. This sharpens the students' power of observation and may also lead to some very interesting dialogue.

e.g. That is NOT the imaginary i . Oh, you mean here? No, that is the i 'th term. The second line? Of course that's the i vector. No, no, no! That stands for internal!

Symbols which may have an intuitive meaning should be avoided. We recommend, for example, the use of τ for volume and s for area.

There are three basic manoeuvres in book referencing which have enjoyed considerable success over the years.

The first consists of giving a list of three or four "very good" books, heartily recommending one of them, and then proceeding to give a set of notes that makes the books seem like Grade I Primers. This immediately shows that you are intellectually superior to the books' authors.

The second technique consists of suggesting "an excellent" book at the beginning of the year and ignoring it completely from then on. This may be augmented by referring often to one other book in particular, knowing well that there is only one copy of it in circulation.

The third technique, less widely used but devastating, consists of ignoring the whole question of references until three weeks before the exams and then announcing that Eiersetzer's "A Simple Introduction to Elementary Discontinuities" is the best book that can be found for reviewing the year's work in Advanced Analysis of Complex Singularities. The inference, of course, is that the subject taught is barely worth any mental endeavour, and hence all students who find trouble with it are idiots.

(e) *Easy, largely boring*

The main objectives are to keep the students agitated and also to try and sneak a few tricky minor points past them. The former can be achieved by high-speed dictation, slowed down only occasionally for breathing. Following the work from the text can be given a change of pace by stopping abruptly at the end of paragraph, walking to the board, thinking for a moment and then putting, with great dignity, the first word of the next paragraph at the upper left-hand corner. This should awaken most of the dozers, especially if the chalk can be made to squeak, and will also allow you to have a little sport guessing the number of those who date up a new page in their notes.

Approaching a lecture in which you plan to put over a minor tricky point which is not in any text, has never been mentioned before, will never be mentioned again, and would make a good exam question, you should enter the room with eyes half-open and feet dragging. This gives the students a false sense of security and the trap is set. Making some minor errors and having apparently great pains in adding to a hundred you will put the class in the mood of self-assurance which comes from a feeling of utter superiority. Then with two minutes to the end of the lecture you make your rapier thrust and withdraw before anyone thinks of asking for an explanation.

(f) *Easy, mildly interesting*

The procedure here consists of simply coming in on the first day, giving a genuinely good reference, telling the class that this is their snap course, leaving your office number, and leaving.

It is hoped that the above collection of ideas, drawn from experience and widely practised for many years, will enable new lecturers to assume immediate control and mastery over their students and at the same time to be admired as wonderful people.



<p>RACIST JOKE</p> <p>How many racists does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>	<p>OFFENSIVE JOKE</p> <p>How many dead budgies does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>
<p>SEXIST JOKE</p> <p>How many women does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>	<p>IN JOKE</p> <p>How many Hernandos does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>
<p>POLITICAL JOKE</p> <p>How many Conservatives does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>	<p>SOCIO-ECONOMIC JOKE</p> <p>How many communists does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>
<p>TECHNOLOGICAL JOKE</p> <p>How many IIT ians does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>	<p>PERFECTLY ACCEPTABLE JOKE</p> <p>How many jocks does it take to change a light bulb?</p> <p>Three. One to hold the bulb, two to turn the ladder.</p>

YOU'RE WORTH YOUR SALT

ONLY IF YOU KNOW THAT:

- For a perfect gas, the pressure coefficient C_p may be expressed in terms of the free stream Mach No. and the velocity ratio.
- The length of horizontal line joining two points is the abscissa of the point on the right minus the abscissa of the point on the left.
- Natural or hyperbolic logarithms were invented by Napier of Merchiston in 1614.
- The differential equation
$$x^2 y'' - x(2 + 1/x)y' - (8 + 2/x - 1/x^2)y = -4 + 3/x + \cos(2/x^2)$$
 has a regular singular point at infinity.
- The reference-input elements comprise the portion of the feedback control system that establishes the relationship between the reference input and the command.
- Imran Khan plays cricket for Pakistan (and Kapil for India).



The year that has passed has seen the winds of change sweeping every corner of the globe. Cataclysmic events of historical importance and far-reaching consequences have occurred which threaten to change the world's destiny. In our country too we have witnessed upheavals with immense social, political and economic ramifications. Amidst all this stands our Institute, aloof and complacent, impervious to its environs. No doubt, the advent of our new Director has seen some changes being initiated. Welcome as they are, they are not enough to make up for the years of benign neglect the student sector has suffered from. Time and again we have stressed the fact that as far as student facilities are concerned we are way behind the other IITs. This was all the more evident during the recent inter-IIT meet held at Delhi. We had the mortifying spectacle of the students of other IITs proudly strutting about in their impressive track-suits whereas our boys, the champs' had to go to about in rags (literally!) Our authorities take great delight in tomtomming that our boys have done it again!! Can't they

ensure that the boys are at least decently outfitted? We can follow the practice of IIT Kanpur where the track-suits are returned after the Inter-IIT. If a student takes part in three inter-IITs he keeps the track-suit

In past issues we have recorded our impressions of sister Institutes, the most pervasive and overwhelming one being that there STUDENTS MATTER. A nation's true wealth lies in its students. If today, our Institute has prestige and standing in domestic and international circles it is because of the fund of respect and admiration created by our students wherever they have gone. Let this fact be remembered by our higher echelons of administration the next time they trot out some excuse for their tardy progress in implementing some long-delayed reforms. One more thing we would like to point out is the endless harassment of students by bureaucrats and their procedures. At present there is too much of red-tape and administrative meandering at every level. Too much authority and responsibility is being concentrated in the hands of a few who, even if they do have the inclination, do not have the time to expedite matters directly concerning the students. What we would suggest is decentralisation of authority so that student representatives have far more powers and are not mere errand-boys. This will go a long way in reducing work-loads as also vesting in these representatives the necessary powers to galvanise the pace of events. Progressive as our Director is known to be, we are sure our pleas will not fall on deaf ears and the New Year will see some changes for the better.



I have read the article on IIT Kanpur addressed by G.M.K. Raju and Bindu Madhavan. It is in the right perspective if I place some of my views to the readers of Campastimes

GENERAL :

i) As it is rightly said it is mandatory that the students and the faculty must have faith in each other. It should never be a one-way process. In IIT-Madras if the students feel that the faculty does not have great faith in the students the reverse is equally true. (ii) As a member of the faculty in this Institute I very strongly believe in objective evaluation of each course by those crediting it. (iii) I fail to understand why there is so much delay in giving the final results and grade cards to the students. The best approach would be complete decentralisation by which each faculty member responsible for the course shall hand over the final grade to the academic section within two or three days after the final examination.

THE STUDENT GYMKHANA :

We have better finances than IIT Kanpur from this year onwards. One must agree that with the additional funds that have been sanctioned by the Director, part could be used for the creation of new activities which have been thus far unknown in this campus.

AMENITIES IN THE HOSTELS :

A proposal has been recently mooted to introduce fans in each one of the hostel rooms. At least the new hostel will have fans when it starts working. Though it may

not be necessary to have a canteen in each one of the hostels, it is definitely necessary to establish at least two Kiosks at the two ends of the hostel sector. A proposal to construct such Kiosks is under consideration.

STUDENT-FACULTY INTERACTION :

I am very much in favour of having Counselling Service for the students. More than this as I have already mentioned in your earlier issue of Campastimes, it is preferable to allot a group of 6 to 8 students to a faculty member living in the campus who will act as the 'local guardian'. Any personal problem could thus be solved in a more elegant and calm manner and there will be greater student-faculty interaction.

PART-TIME JOBS :

We are now conducting a survey on part-time jobs available on the campus. As soon as the survey is completed we plan to provide such jobs to financially needy students.

LIBRARY :

On Library I feel no more than 10 books should be lent out to any person irrespective of the person being a faculty member or student. Generally it so happens all the best books are taken away resulting in severe disappointment for those seeking books in the Library. Also if a person is in need of

This is in response to a discussion on creativity and a few aspects of research in the article (entitled 'In search of Creativity') that appeared in the first issue of 'Campastimes'

Any creative material is not something that wakes up one fine morning to find itself suddenly creative. The potential for creativity has to be detected and nurtured at a very early stage. About 30 per cent of the school schedule can be made available for individualisation, i.e. the system of education can help a student encounter his own interests and pursue them. Maybe he can be the ward of an understanding and intelligent investigator during the periods of his specialized study. This may bring in its wake a few practical problems but an experiment in this direction is essential.

The selection mode for a research student needs revision drastically. In West European countries no student is taken for granted. A professor however high his rating is available for long discussions with a prospective research student. It is not surprising that such a student spends quite a few days in the laboratories interrogating and questioning the co-workers of the professor concerned. The prof in turn, gets a chance to fathom the curiosity and the potential of the student. The simple system of allotments gives rise to a strong probability of a student being thrust upon an unwilling guide and vice versa. In research interviews in our institute, for instance, a student is willy-nilly about the choice and grabs the first offer that comes to him for the simple reason it is prestigious to do research in IIT.

Research courses can never be an arbitrary assignment. The student and the guide can discuss and arrive at conclusions regarding courses. One also tends to blame a student for not taking stock of a course to point out its inadequacies or even, its irrelevance. The feed-back from the students is most important in matters such as these.

Unless one ushers in a system that is foolproof with reference to the quality of staff and students, it is difficult to think of latitude on a time scale. Financial assistance can be extended beyond four or five years of research in a system that has certainly reached some proven standard.

To take too dark a view of Symposia or Seminars, is unjustified. It is true that organizational problems (like looking after the personal comforts of a fancied delegate) take toll of the energy of the hosts who tend to sideline issues like the quality of seminar, its effectiveness etc. With a proper emphasis on priorities symposia can still be an artery of scientific communication.

The doctoral committee has to comprise researchers who have done relevant work in the field of students they assess. It won't be a presumptuous step if the student and the guide decide the composition of the committee that can objectively view the work.

Dr. B. VISHWANATHAN, Chemistry Dept.

a book urgently he will not have access to good and more recent books.

RESEARCH ASSISTANTSHIP & TUITION FEES :

It is in the interest of the Institute that the idea of research and teaching assistantships is introduced. This way any scholar getting this assistantship will have to work a certain number of contact hours as a technical or research assistant. This way we do not have to appoint many technical assistants who finally aspire for higher positions in the Institute and thereby creating the most unwanted inbreeding. I would definitely say that most Universities in the Western World hate the idea of inbreeding. At least this programme will have a tremendous impact on the Science department which has a substantially large number of research scholars. During the first two years of his stay as a scholar in the Institute he shall be designated as teaching assistant and during the later years as research assistant thereby compelling the students to contribute to teaching and laboratory operations.

I agree it is really a sad thing that we do not have a canteen worth its name where the students, faculty and staff could go and have a decent cup of coffee.

Dr. P. T. MANOHARAN
Dean, Student Affairs

Dear Ed, ★ News has filtered to us about the superb dinner you had recently at the Director's house. How about us? When's our turn? Aggrieved Students (I.I.T.M.)
(Ed: All such queries should be towards Mrs Indiresan, not us!)

murphy's law complete & unabridged

*The Contributions of
Edsel Murphy to the
Understanding of the
Behavior of Inanimate
Objects*

Abstract—Consideration is given to the effects of the contributions of Edsel Murphy to the discipline of electronics engineering. His law is stated in both general and special form. Examples are presented to corroborate the author's thesis that the law is universally applicable.

I INTRODUCTION

It has long been the consideration of the author that the contributions of Edsel Murphy, specifically his general and special laws delineating the behavior of inanimate objects, have not been fully appreciated. It is deemed that this is, in large part, due to the inherent simplicity of the law itself.

It is the intent of the author to show, by references drawn from the literature, that the law of Murphy has produced numerous corollaries. It is hoped that by noting these examples, the reader may obtain a greater appreciation of Edsel Murphy, his law, and its ramifications in engineering science.

As is well known to those versed in the state-of-the-art, Murphy's Law states that "If anything can go wrong, it will." Or, to state it in more exact mathematical form:

$$1 + 1^* = 2 \quad (1)$$

where * is the mathematical symbol for hardly ever.

Some authorities have held that Murphy's Law was first expounded by H. Cohen when he stated that "If anything can go wrong it will—during the demonstration." However, Cohen has made it clear that the broader scope of Murphy's general law obviously takes precedence.

To show the all-pervasive nature of Murphy's work the author offers a small sample of the application of the law in electronics engineering.

II GENERAL ENGG.

- II. 1 A patent application will be preceded by one week by a similar application made by an independent worker.
- II. 2 The more innocuous a design change appears, the further its influence will extend.
- II. 3 All warranty and guarantee clauses become void upon payment of invoice.
- II. 4 The necessity of making a major design change increases as the fabrication of the system approaches completion.
- II. 5 Firmness of delivery dates is inversely proportional to the tightness of the schedule.
- II. 6 Dimensions will always be expressed in the least usable term. Velocity, for example, will be expressed in furlongs per fortnight.
- II. 7 An important Instruction Manual or Operating Manual will have been discarded by the Receiving Department.
- II. 8 Suggestions made by the Value Analysis group will increase costs and reduce capabilities.
- II. 9 Original drawings will be mangled by the copying machine.

III MATHEMATICS

- III. 1 In any given miscalculation, the fault will never be placed if more than one person is involved.
- III. 2 Any error that can creep in, will. It will be in the direction that will do the most damage to the calculation.
- III. 3 All constants are variables.
- III. 4 In any given computation, the figure that is most obviously correct will be the source of error.
- III. 5 A decimal will always be misplaced.
- III. 6 In a complex calculation, one factor from the numerator will always move into the denominator.

(To be Contd.)

G
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Remember when hippy meant big in the hips,
And a trip involved travel in cars, planes and ships?

When pot was a vessel for cooking things in
And hooked was what grandmother's rug might've been

When fix was a verb that meant mend or repair,
And be in meant merely existing somewhere?

When neat meant well-organised, tidy and clean

And grass was ground cover normally green?

When lights and not people were switched on and off,

And the pill might have been what you took for a cough?

When camp meant to quarter outdoors in a tent,

And pop was what the weasel went?

When groovy meant furrowed with channels and hollows

And birds were winged creatures like robins and swallows

When fuzz was a substance real fluffy like lint,

And bread came from bakeries - not from the mint?

When square meant a 90 degree angled form,

And cool was a temperature not quite warm?

When roll meant a bun and rock was a stone,

And hang-up was something you did with a phone?

When chicken meant poultry, and bag meant a sack,

With junk, trashy cast-offs and old bric-a-brac?

When jam was preserves you spread on your read,

And crazy meant balmy, not right in the head?

When cat was a feline, a kitten grown up,

And tea was a liquid you drank from a cup?

When swinger was someone who swung in a swing,

And pad was a soft sort of cushion thing?

When way-out meant distant and far, far away,

And a man couldn't sue you for calling him gay?

When tough described meat, too unyielding to chew

And making a scene was a rude thing to do?

Words once so sensible, sober and serious

Are making the freak scene like psycho-delirious!

It's groovy, man, groovy, but English it's not,

Me thinks that our language is going to pot.

YOU'VE HAD TOO MUCH TO DRINK WHEN :

You start kissing portraits on the wall

You complain about the flush after pulling down the venetian blinds

You hear a duck quacking...and it's you
You put your wife out and sleep with your cat

You eat your sanitary napkin and leave the wafers alone

You complain about the small bathroom after emerging from the coat closet

You strike a match and light your nose

You tell everyone you have to go home and the party's at your place

You kiss your wife goodbye and drag your hostess home

You have to hold on to the floor to keep from sliding off

You insert the lighted end of your cigarette into your mouth

You refill your glass from the fish pond

You laugh at your own stupid jokes

You suggest every one stand and sing the national budget

You take off the handkerchief and blow your ear

You sneer at the biggest bore in the room and realise...you are in front of the wall mirror,

You whisper your best joke to the rubber plant

You are sitting at the dinner table and you ask the hostess to pass a bed pan

(To be Contd.)

INTER I. I. T. REMINISCENCES

Among the issues in this campus that never fails to provoke heated debate and controversy is the Inter I.I.T. Its protagonists claim that it is a natural culmination of physical activities in each Institute and that the objective of the meet is to bring together the students of various I.I.Ts and to foster a closer association and understanding among them through sport activities. The critics rebut this, claiming that instead of friendship and camaraderie the meet fosters bad blood and unhealthy rivalry among the students; besides the standard is abysmally low and the quality of sport activities does not justify the huge amount spent on it. The truth lies somewhere in-between. Also it is a totally different experience actually attending the meet and being in the thick of things. It is then that you undergo the tension and excitement over fluctuating fortunes. The bonds and links formed due to a common objective to win are those that endure. In the heat of the moment concepts like sportsmanship, fairplay are forgotten for the goal is to win. No matter what the cost. No one likes to lose, least of all an IITian. This no doubt explains the rationale behind various acts which on hindsight may appear unjustified. As far as Campastimes was concerned a new precedent was set of bringing out daily bulletins (excerpts of which are printed elsewhere in this issue)

This year in order to reduce expenditure the coaching camp was reduced to 10 days. A notable point was the sense of responsibility and discipline which was prevalent among the sportsmen and the way in which they practised. This exploded the myth that coaching camps are usually utilised for hogging and relaxing at Gymkhana expense. Our journey seemed jinxed for the bus we were travelling in broke down before we reached the gate. Worse things were to come although we didn't realise it then. Our bogey, for God knows what reason, was delinked at Jhansi. Suddenly in the middle of the night we were stranded in the middle of nowhere! Anyhow we managed to reach Delhi late in the evening totally drained out.

1st day:

There was an air of expectancy tinged with apprehension. The thought uppermost in everyone's mind will we make it? The first event of the day was the inauguration function. The band was impressive (Rajputana rifles) the march past was not. We converged on the athletics ground. Sridhar qualified for the 100M finals with a timing of 11.3 secs. So did Natarajan (Bull) for the 400M. In the high jump, Moses Venki and Radhakant got 2nd, 3rd and 4th places. In Shot Put Chief got a bronze. But the best effort came from v⁴ who won the gold medal in the 5000M. In spite of a herculean effort James Mathew got the bronze. The tennis match against Kanpur was a straight win for us. Veterans like Kasturi Digi

Ullal, Kunte were too good for their opposition. A heartening feature was the new find Ramesh who looked as good as any of them. In Kabaddi we lost to KGP. The footer match against KGP was a fast hard-fought game. We were distinctly unlucky to lose. But the shock of the day was in hockey when we lost to Kanpur. This unexpected defeat depressed the entire contingent. But our spirits lifted with the volleyball results where Moses and Co made mincemeat of the opposition (KGP). The same professional and ruthless approach was evident by the way Khatri, Kamath and Rangarajan decimated the opposition (Delhi). We lost Badminton (both men and Women) to Kanpur. Ravi won his singles and doubles. Although Milind and Ashok were good they became nervous and made mistakes. The Basketball match against Bombay seemed a farce for both teams knew what the result would be. We won comfortably. In the cricket match against Bombay after a bad start we rallied to make a good score. All in all it was a day of mixed fortunes for us.

2nd day

Once again it is v¹ who freaks out this time in the 1500M. Mathew got a silver and Bucket came 4th. This chap is fast improving and may soon surpass v⁵ himself. Natarajan (Bull) got a bronze in the 400. In Tennis it was the same old story (3-0) this time vs Delhi. A supreme effort by Khatri helped us win Table-tennis (vs Kanpur) 5-3. But in T.T. (Women) we lost to Bombay which had a state player. In Kabaddi we lost heavily to Bombay. A small consolation was that we licked Bombay in volleyball. Another shock was our second defeat in hockey, this time to Delhi, in a match marred by incidents. The basketball match against Kanpur proved to be exciting with Kanpur putting up a stiff fight. A spirited effort by Raju saw us win (64-49). We lost our cricket match against Bombay due to a lot of dropped catches. Besides Bombay's batting was very good. But the best news of the day came from Noore and his men (weight lifting). Easily the quietest bunch in the contingent they strived hard and even starved to remain in the weight class. They deserved the gold.

3rd day

We began the day well with Ramalingam doing extremely well in the Hammer throw. Kannan came 3rd in the triple jump. Tennis was as usual 3-0 this time against KGP. But the surprise of the day came in football where we beat Kanpur. This meant we were back in the reckoning for a place. Again in hockey we beat KGP. The same team which looked so dispirited in the previous matches now played sparkling hockey. Like the champs we knew them to be. Our basketball match against KGP was a cakewalk. The first 5 rested and gave the others a chance. Ramesh Tandu) High B. Ashok played so well that

we beat KGP by a huge margin. In volleyball again we beat Kanpur. The combination of Moses, BKK, Shaktivel, Chandy Rajagopal and Suresh is just unbeatable. The best piece of news of the day came from the Gymnastics team. Ably captained by Ramaswamy (Nadia) the team consists of highly enthusiastic and gifted gymnasts like H.S.S. Mani, George Valiath, Hebbar and Pandian. In spite of many controversial decisions which baffled even our opponents we won a bronze. Indeed there is hope for us in the future.

4th day

Once again v⁸ and Mathew freaked out to get the gold and silver in the 800M. In table tennis we beat KGP with great ease. But in football we drew with Bombay. The rest of the day was free for us to sit back and plan our strategy for the crucial 5th day.

5th day

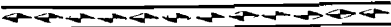
The day dawned with every member under tension. Before the sun set, we would know whether the general championship was ours or not. Everything hinged on the football match with Delhi. Complicated calculations made by Kannan showed that victory in footer would mean we had won the G.C. We began the day well with Chandy and Kishen Reddy easily winning the gold and silver in the Javelin throw. We got the 2nd place in the 4x100M relay. The shock of the day came in tennis where we lost to Bombay. But we avenged our defeat by beating them in Table-tennis. Then came the football match we were waiting for. It was pretty evident that the boys were going all out. Billy, Tushar, Rajeev, Ravi Shankar, Diwakar, Song and of course the magnificent Abhijit Biswas rose to the occasion and put their heart and soul into winning the match. An early goal was disallowed and tempers were running high. Fortunately another goal was soon scored. From then on we stuck to our lead grimly defending with Biswas bringing off some incredible saves. Soon it was all over and we had won the match and the G.C. The jubilation and release from tension was just too much. We could now relax. In badminton we beat Delhi but in hockey surprisingly we drew with Bombay. The hockey team has so many talented players like Natarajan, G. S. Kalyan, Kiro etc. that their lack of form is astonishing. In volleyball we were clashing with Delhi for the gold. We lost the first game amidst heavy jeering by the Delhi crowds. But we fought back ferociously to win the next 3 games and the gold. Hats off to Moses and his men. They were really too good for the opposition. Finally the match of the day, basketball again with Delhi. We were off to an early lead (16-2), the game was fast-paced and absorbing. But then Ikes with 4 fouls went out and our play lost its sparkle. Raju was off-colour, so was Murali Jayaraman was nervous. Only Sudhakar was steady. The Delhi players egged on by the crowds put on the pressure. But still we fought back gamely but lost narrowly.

6th day

The only point of interest was whether we would win the Athletics gold. In the 100M which stopped many a heartbeat Sridhar won the gold with a timing of 11.2 sec. In the 4x400M relay thanks to a superlative effort by v³, Mathew, Sampat and Natarajan we won the silver and clinched the Athletics Gold. The prize distribution ceremony followed shortly and we were proud that we had done it again. Months of planning and practice had come to fruition.

Contd. Overleaf.

In the final analysis what counts is not victory or defeat but the participation. Those who didn't perform well this year could be the stars of next year. The girls may not have achieved spectacular victories, but they added a lot of color and gaiety to the proceedings. Finally, we wish to commend all the team members, the PTIs, coaches, and the staff members who put in so much effort for our victory. But we would like to single out two people for their stupendous effort. One is of course our genial Sports Sec. Jairam Kamath who in his quiet, tactful way solved many a problem. He has indeed proved to be as worthy as any of his predecessors. The other is none other than our enthusiastic, jovial Sports Advisor Prof. Balaraman. He not only put in a great effort to see that everything went right, he took a personal interest in all the team members. If anyone had an injury or fell ill, he would be the man most worried. He had set his heart on winning the G.C. and he made no bones about it. The rapport he had with the students should be a model for others. Hence we have no hesitation in naming both of them 'Man of the meet'.



OUR CAPTAINS	Athletics	Sampat
	Badminton	Abhijit Biswas
	Basketball	Ikes
	Cricket	Ramanujam
	Football	K. Biswas
	Gymnastics	Ramaswamy
	Hockey	John Kiro
	Kabaddi	Paul Raj
	Tennis	Kasturi Rangan
	Table - Tennis	Arun Khatri
	Volleyball	Moses
	Weight Lifting	Afzel Noore

GOLD		POSITION
Madras		Athletics
		Tennis
		Table-Tennis
		Volleyball
		Weight lifting
Delhi		Basketball
		Hockey
		Gymnastics
		Kabaddi
Bombay		Cricket
		Badminton
Kharagpur		Football
Kanpur		—

INDIVIDUAL GOLDS	
5000M	
1500M	V ³ (BEST ATHLETE)
800M	
100M	SRIDHAR
JAVELIN	CHANDY
WEIGHT LIFTING :	Afzel Noore
	Venugopal

OTHER PLACINGS	
Silver:	Foot Ball
	Basket Ball
Bronze:	Table-Tennis
	(Ladies)
	Gymnastics

OVERALL POSITION (Points)	
Madras :	75
Delhi :	56
Kanpur :	36



NOTICE

OFFICE OF THE SOUTH EAST ASIAN
DEFENSE COUNCIL



INSTRUCTION TO PATRONS ON PREMISES IN CASE OF NUCLEAR BOMB ATTACK:

UPON THE FIRST WARNING:

1. STAY CLEAR OF ALL WINDOWS.
2. KEEP HANDS FREE OF GLASSES, BOTTLES, CIGARETTES, ETC.
3. STAND AWAY FROM BAR, TABLES, ORCHESTRA, EQUIPMENT AND FURNITURE.
4. LOOSEN NECKTIE, UNBUTTON COAT AND ANY OTHER RESTRICTIVE CLOTHING.
5. REMOVE GLASSES, EMPTY POCKETS OF ALL SHARP OBJECTS SUCH AS PENS, PENCILS, ETC.
6. IN CASE OF NUCLEAR EXPLOSION, BEND OVER AND PLACE YOUR HEAD FIRMLY BETWEEN YOUR LEGS.
7. THEN KISS YOUR ASS GOODBYE.

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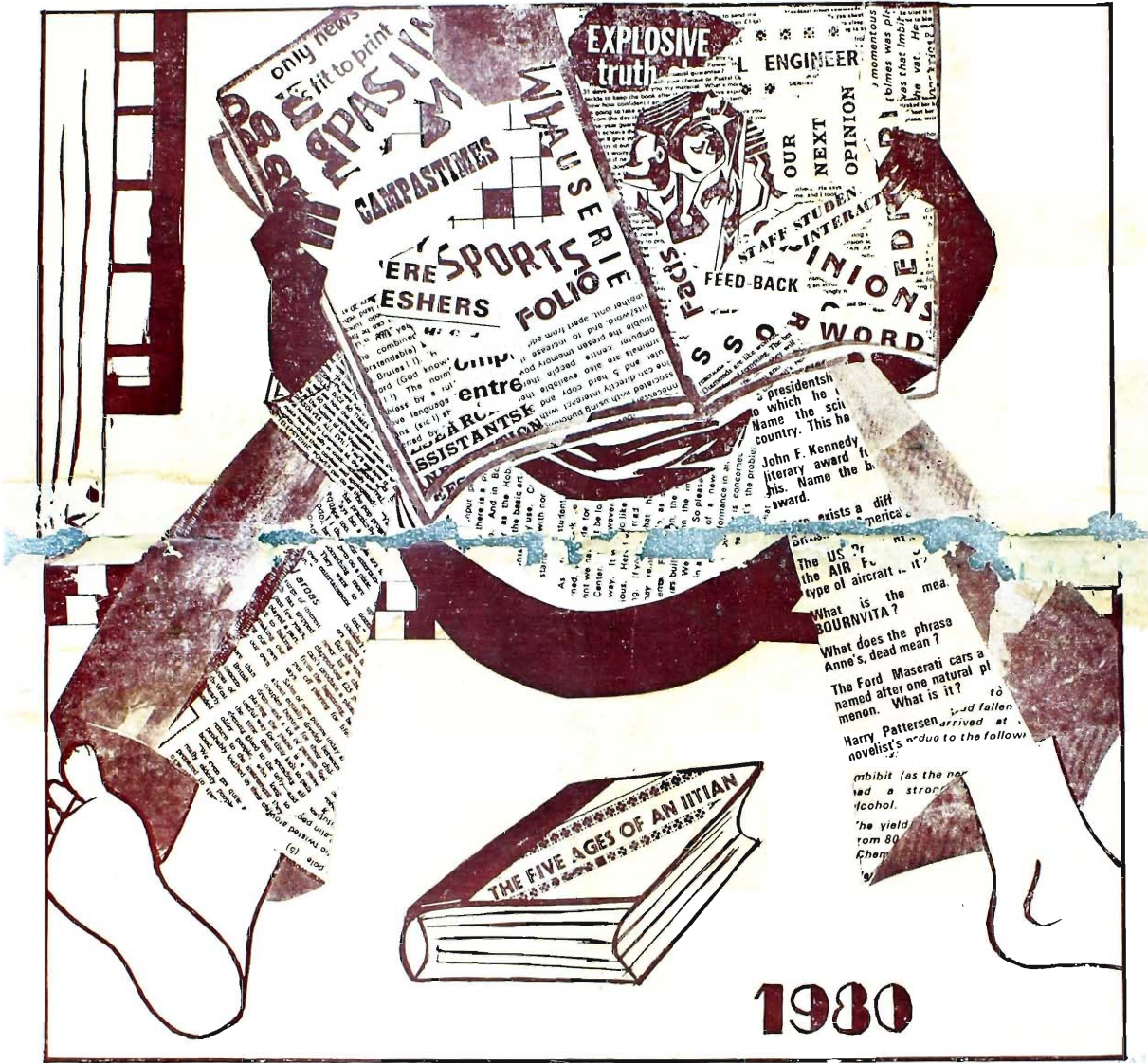
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	January	★	February	★	March	★	April	★	May	★	June
Sun	* 6 13 20 27		* 3 10 17 24		30 2 9 16 23		* 6 13 20 27		* 4 11 18 25		1 8 15 22 29
Mon	* 7 14 21 28		* 4 11 18 25		31 3 10 17 24		* 7 14 21 28		* 5 12 19 26		2 9 16 23 30
Tue	1 8 15 22 29		* 5 12 19 26		* 4 11 18.25		1 8 15 22 29		* 6 13 20 27		3 10 17 24
Wed	2 9 16 23 30		* 6 13 20 27		* 5 12 19 26		2 9 16 23 30		* 7 14 21 28		4 11 18 25
Thu	3 10 17 24 31		* 7 14 21 28		* 6 13 20 27		3 10 17 24		1 8 15 22 29		5 12 19 26
Fri	4 11 18 25		1 8 15 22 29		* 7 14 21 28		4 11 18 25		2 9 16 23 30		6 13 20 27
Sat	5 12 19 26		2 9 16 23		1 8 15 22 29		5 12 19 26		3 10 17 24 31		7 14 21 28



	July	★	August	★	September	★	October	★	November	★	December
Sun	* 6 13 20 27		31 3 10 17 24		* 7 14 21 28		* 5 12 19 26		30 2 9 16 23		* 7 14 21 28
Mon	* 7 14 21 28		* 4 11 18 25		1 8 15 22 29		* 6 13 20 27		* 3 10 17 24		1 8 15 22 29
Tue	1 8 15 22 29		* 5 12 19 26		2 9 16 23 30		* 7 14 21 28		* 4 11 18 25		2 9 16 23 30
Wed	2 9 16 23 30		* 6 13 20 27		3 10 17 24		1 8 15 22 29		* 5 12 19 26		3 10 17 24 31
Thu	3 10 17 24 31		* 7 14 21 28		4 11 18 25		2 9 16 23 30		* 6 13 20 27		4 11 18 25
Fri	4 11 18 25		1 8 15 22 29		5 12 19 26		3 10 17 24 31		* 7 14 21 28		5 12 19 26
Sat	5 12 19 26		2 9 16 23 30		6 13 20 27		4 11 18 25		1 8 15 22 29		6 13 20 27