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**fourth
annual
number**

***the alumni association
indian institute of technology
madras***

PRADEEP

FOURTH ANNUAL NUMBER

1968



सहवीर्यं करवावहे

THE ALUMNI ASSOCIATION
INDIAN INSTITUTE OF TECHNOLOGY
MADRAS

INDIAN INSTITUTE OF TECHNOLOGY,
MADRAS-36.

Director's Office

Dated 22nd July, 1968.



MESSAGE

To my young friends,

In spite of uncertainties at present, one can see attempts to create a new system that will utilise our untapped resources, profit by large-scale organisation and give greater benefits to the common man. To reach the take off stage is a long and rough road. Great opportunities lie ahead for you all though disguised as inscluble problems. I have no doubt that alumni of this Institute will tackle them squarely and successfully.

A. RAMACHANDRAN.

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Editorial

The fourth annual number of 'Pradeep', we hope, will be read and liked by all because of its small size which, of course, is inversely proportional to the standard of the articles contributed.

All of us know that Mr. V. Srinivasan (Gold Medalist 1966), one of our brilliant students, is not an Eve-teaser but a brain-teaser. His contribution, 'Brain-teasers' is meant for those who want to be mentally alert and it is felt that his article which is based on aptitude tests will help the readers to become members of 'MENSA', a society for intellectuals.

Elsewhere you will find hilarious Ananthu in a pensive mood. Writing about Stanford University and American Universities in general, Mr. Ananthu points out the defects in our system of education and also the rebellious attitudes of the student community abroad. Through his article he educates the most educated.

Dr. Gopichand's 'Musings' are thought-provoking. He offers solutions for the present day ills. Kind hearted, sincere and hard working, Dr. Gopichand means what he says when he advocates the policy of earnestness and hard work for the progress of the nation. Written in simple style, with words well chosen and pregnant with meaning, Dr. Gopichand's article will touch every one's heart and make him feel the responsibility he has to the nation as a good citizen.

With the news of Departments at a glance, Alumni Directory and other interesting information 'Pradeep', we are sure, serves the intended purpose.

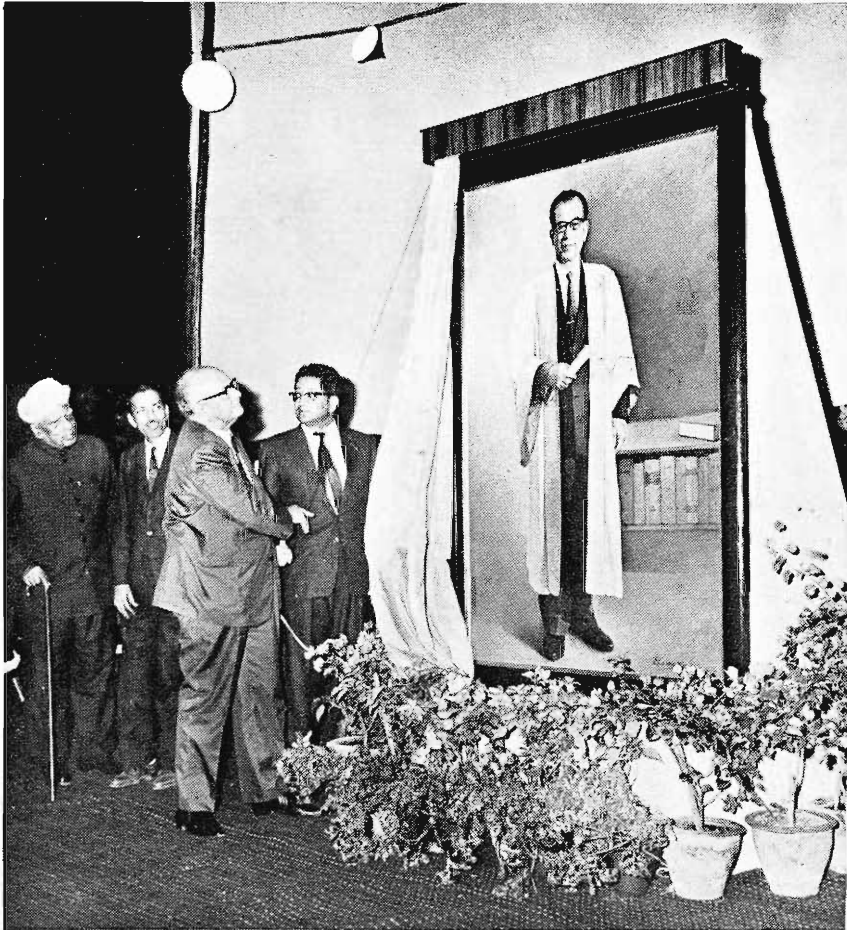
Alumni Days come and go but what remains for ever is the joy that one gets by meeting the old (not in age!) and the new friends. The Alumni Association is doing its best to keep its members well informed about what is happening at I. I. T., Madras.

This may perhaps be the last time the editorial is being written in a stuffy dark room opposite to Chemistry Lecture Theatre. Arrangements are being made to shift the Alumni Office to the new Administrative Building.

We remember with gratitude Prof. Sengupto who inspired us in the past. His liberal contribution of ideas, advice and articles for Pradeep always encouraged us.

It is said that the pursuit of knowledge should be the aim of every one. In the Alumni office pursuit of lost contacts is a passion. We appeal to all to renew contact with the Alumni Association and keep it posted with the latest news.

We wish every one a bright future.



Prof. M. S. Thacker unveiling the portrait of Prof. B. Sengupto
First Director of I.I.T., Madras on 27th Jan. 1968.

Education about Education

By

T. S. ANANTHU

Stanford University is situated in what the residents of Palo Alto and Atherton claim to be the richest part of the richest country in the world. Naturally, therefore, when I set out from India I had expected to see a set of contented, well-dressed, disciplined students studying under conservative, learned Professors in a formal atmosphere similar to that existing in our "Public Schools" in India.

Imagine my surprise, therefore, when on my very first stroll through the Stanford campus what should I come across but a "protest rally" in their main quadrangle—the rally being held to protest against a variety of things, ranging from the Vietnam war to the "injustices" existing in their society, to the "outmoded" ways of teaching existing in their Universities. And in the class room these students behaved in a manner that was not only not formal but, from Indian standards, almost ill-mannered—dressed not in suits, ties and boots but some times even in shorts and slippers (some were even barefoot, though this is rare), drinking away coke, while the lecture is going on, shooting questions at teachers without ever bothering to stand up, etc., etc. Some of these students told me that what was lacking at the rich, privately—owned Stanford University was the social consciousness and liberal mentality that existed in the State-owned University of California's Berkeley campus, just 32 miles away. So at the very first opportunity that I got, I paid a visit to Berkeley.

That was in the summer of 1965. Those were the first and most violent days of the so-called Beatnik and Vietnik movements, and Berkeley was both the origin and centre of these movements. So you can imagine what I found there.

Since those days I have often wondered what my IIT friends conclude from reading newspaper descriptions of student unrest in foreign Universities. I remember one of our favourite pastimes while at IIT was to discuss the million and one ills that we thought were widespread in the educational institutions in India. In those discussions, most of us used to assume that these gross deficiencies in the educational system, whether due to technical incompetency or mismanagement, were peculiar to India, and certainly did not exist in the economically advanced countries. Are the events that are taking place these days on campuses all over the West indications that the same maladies that frustrate the college youth of India prevail in the rest of the world too? Should Indians give up efforts to learn the techniques of education from the United States and other foreign countries? I thought 'Pradeep' would be an ideal forum to present some thoughts on this question. I must admit that what follow are purely my own views. But, lest you skip the rest of this article on the very justifiable ground that you are not interested in the views of just one insignificant person, let me hasten to add that most Indians and Pakistanis in the U.S. with whom I discussed this question have the same or very similar views. Well, here goes:

There is no denying the fact that there is a great deal of discontent and disillusionment among students both in the U.S. as well as in Europe, as is evident by the recent disturbances in New York, Britain, Berlin and France. The last is in a state of complete chaos as this article is being written. But there is a distinct difference between the causes of discontent in the West and in India. Many of the causes that exist in one place do not exist in the other. Therefore, any one familiar with the internal working and set-up of Indian Universities can still find a lot of ideas worth importing from the U.S. Incidentally, the '*vice-versa*' is also true—U.S. Universities could perhaps find a solution to some of their acute problems by seeing the way they are handled in Indian Universities.

In fact, I found my one year's stay at Stanford to be not only an education in engineering, but also an education in education itself, the methods, meaning, importance and usefulness of education. No doubt, I found a lot of things in U.S. Universities which we would be foolish in adopting—but then that too was an integral and important part of the education in education. But it is perhaps more useful to list here many things in American Universities which Indian Universities might find very profitable and rewarding to adopt. To mention some of the more striking aspects:—

(1) Perhaps the most obvious disparity in the American and Indian educational systems is in the formation of the syllabus and the requirements for obtaining degrees. The total lack of choice presented to the Indian student is a matter of regret. Those of us who have gone into "practical life"—be it in industry, education or research—now realize how the basic educational background needs differ from career to career. Surely the same dosages of, say, Industrial Management or History and Culture, is not required for a person going into pure research as for a person whose principal objective is to take over his father's business or move into other kinds of administrative positions. I am not advocating the total elimination of any subject for anybody, for all subjects are useful to any student no matter what his career. But regulating the amount taught depending upon the future plans and aspirations of the student will certainly lead to better utilization of his precious time. In the U.S., every student, even at the high school level, plans his or her own courses, in consultation with an adviser. The enormous flexibilities offered by this system are obvious. It is also possible for a student to change careers, if he so desires, at any stage and yet lose only a minimum of his valuable time, for the courses that he has already taken in fields related to his new career get "accredited" to him, and he doesn't have to start all over again. In addition, this system helps faculties and students of various departments to keep in touch with each other and sometimes even leads to the discovery or formation of entirely new or "amalgamated" fields of study; for example, the Department of Engineering Economy at Stanford University recently "evolved" by the joint interest shown in certain common areas by departments specialising in such diverse fields as Electrical Engineering, Civil Engineering, Computer Science, Industrial Engineering, Operations Research, Economics, Business Administration and Statistics.

(2) There is a maximum limit on the number of lecture hours (including practicals) per week that a student can elect to attend, and this limit usually works out to around 18. To those of us used to the compulsory 39 hours of class room work per week, this might seem an awfully light load, far from it, for each lecture, an average of around 3 to 4 hours of preparation and home work is required. This has the great advantage of enabling a student to learn every thing that has been taught until the previous class before attending the next

class, and also of enabling the teacher to go much faster in the class on the assumption that every one is "up-to-date" with what he has already taught.

(3) I was one of those IITians who almost fainted in the examination hall when presented with a question paper that contained no "choice". In those days it seemed so unjust. But now my views on the subject have undergone a complete transformation. The "choice" presented to us gave us the "opportunity" to omit certain chapters we did not like, and therefore in later studies we kept omitting those chapters or portions of subjects which required as back-ground material the chapter we had omitted previously. For example, an Indian student who came here from quite a reputed Institute in Bombay had skipped much of Electronics while doing his B.E. in Electrical Engineering. The result was that he was completely a fish out of water here, for, in the U.S. Electrical Engineering is synonymous with Electronics, "Heavy Current" Electrical Engineering being considered almost "obsolete". Further, the introduction of choice in question papers brings in the question of gambling and risk-taking, and is unfair to the student who is really and honestly in pursuit of knowledge. Of course, to make the removal of "choice" effective and useful, we will have to change our entire approach to studies and especially to examinations. Open book examinations, with questions trying to test the "fundas" of the students, rather than his cramming capacity, will have to be introduced. Most examinations in the U.S. are open book, though I cannot say that all the question papers I have seen have satisfied the ideal objective of testing a student's real knowledge. However, the vast majority of them satisfy this difficult criterion, and this proves that the system is practical and possible, apart from being certainly more desirable.

(4) Attendance is never compulsory in U.S. Universities. Most lecturers follow a text book, and are not ashamed to admit it or reveal its name. If a student thinks he can better utilize his time by staying at home and reading the book rather than attending the classes, he is free to do so. The wisdom of his decision is tested at the examinations, thus preventing irresponsible students from taking undue advantage of this freedom.

(5) The "syllabus" for each course consists only of the bare outlines, and it is left to the instructor to teach what he thinks best in the manner he thinks best. The freedom given to the instructor, both in setting the contents and pace of teaching as well as in the examination papers and their grading, is enormous. One result is that the course content, especially of technical subjects, is extremely dynamic, incorporating the latest trends in the field and often supplemented by discussions on articles in recent technical journals.

(6) Then of course there is the "semester" system. The year is broken into three (in the case of Stanford and a few other Universities, four) portions, and in each portion a student starts and completes the number of courses he thinks he can handle, which is generally five for a full-time student. In this manner, the student is never burdened with 13 or 14 examinations simultaneously, and yet learns as many subjects within a year. The reduction in the "density of subjects" (measuring in terms of number of subjects to be learnt and retained at a time) also helps him to comprehend and digest a subject more coolly and thoroughly.

(7) For the vast net work of engineering colleges that have sprung up all over India to be beneficial to the economy, cooperation and joint efforts between the industry and these colleges is imperative. In the U.S., much of the research work in Universities is financed by industrial organisations, and employees of these organisations are given incentives in the form of tuition refund (tuition can run as high as \$2,000 a year), hours off from work for studies,

and other benefits for continuing their education. There is a growing realization among industrialists that ultimately they are the ones who are going to benefit from inventions or discoveries made in the University laboratories, and there is a realisation among Professors that they will have to justify the millions doled out to them by producing something useful to the economy.

Of course, it is not my intention to give the impression that I am in favour of copying every thing that exists in U.S. universities. But certainly there is every reason to adopt what we think would be beneficial to us. As the unrest in U.S. and European Universities has shown, their educational system too lacks certain essential ingredients, and in fact they might be able to solve some of their problems by giving more importance to some of the values that we cherish. Perhaps the enormous surge in popularity of Ravi Shanker, Ali Akbar and Maharishi Mahesh Yogi is a manifestation of this realization on their part. One thing is certain-the East and West can no longer remain isolated. Modern strides in communication has seen to that. In the future, we are going to be studying each other and borrowing ideas from each other. If only we borrow what is good for us and reject what is not, this world would be a much better place to live in.

Brain Teasers[†]

By

V. SRINIVASAN

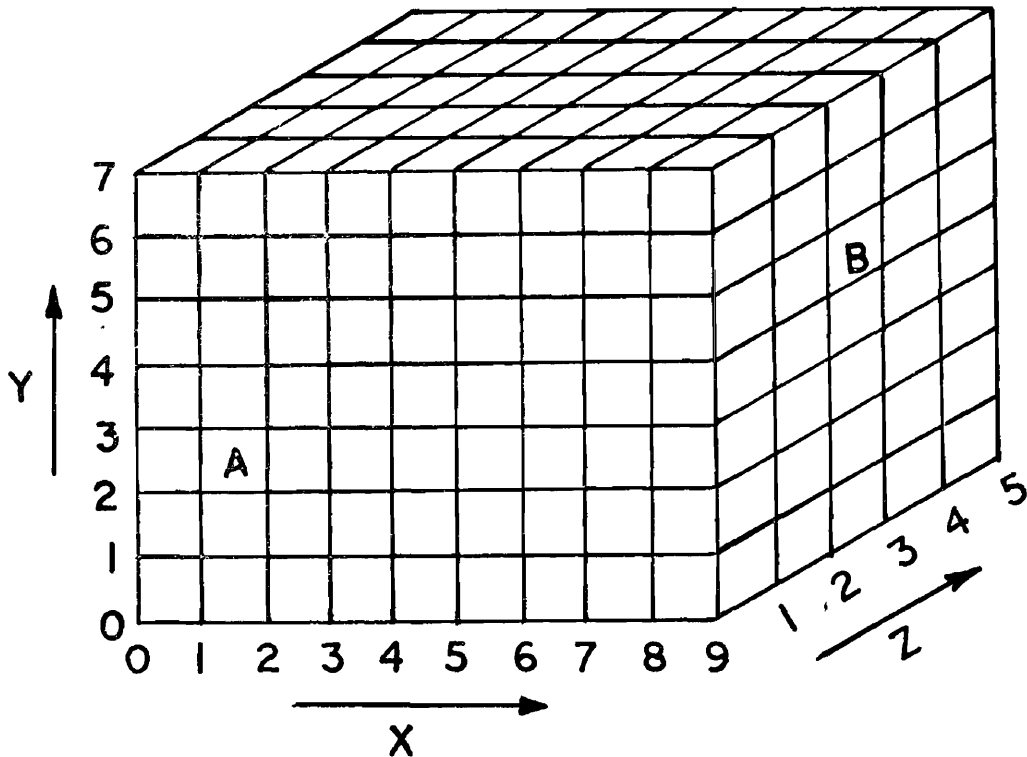
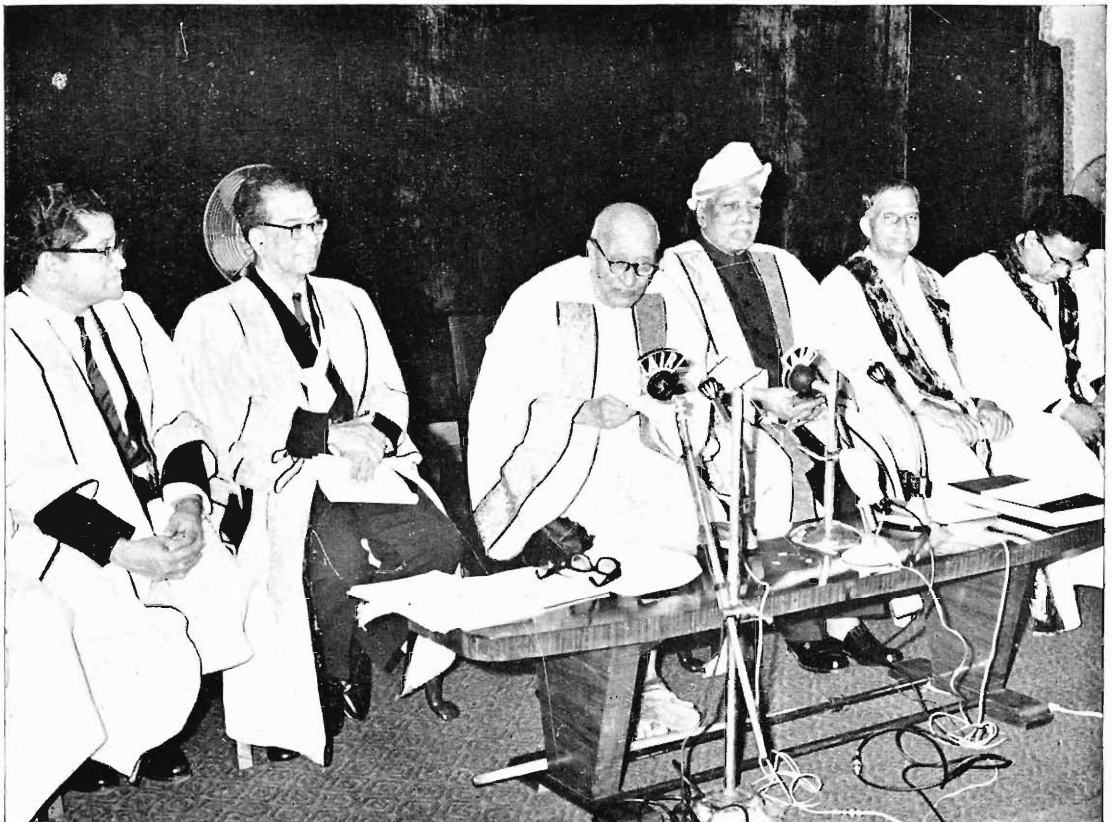


Fig. 1

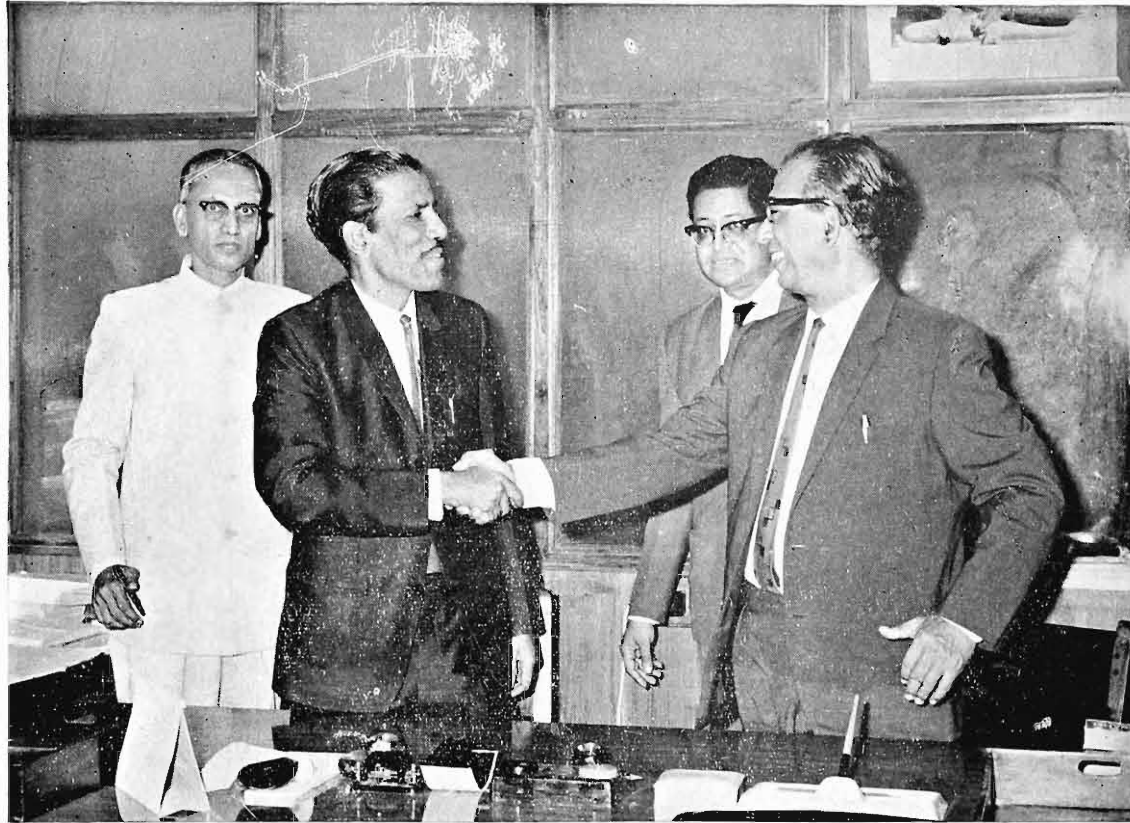
[†] Based on Aptitude tests for Graduate Record Examinations.



Prof. B. Sengupto, Director, receiving Sri C. Rajagopalachari



Sri C. Rajagopalachari delivering the convocation address



Prof. B. Sengupto, First Director, handing over office to the new Director,
Dr. A. Ramachandran on 11th December, 1967

The rectangular solid shown in figure 1 is 9 cms long (X) 7 cms high (Y) and 5 cms thick (Z) and is composed of centimetre cubes. The cubes are identified by their coordinates (X, Y, Z) for eg. A is (1, 2, 0) and B is (8, 4, 2).

1. How many cubes are there for which $Z = 1$ and $(X + Y + Z)$ is even?
 - A) 30
 - B) 32
 - C) 31
 - D) None of the above
2. What are the co-ordinates of the cube 'B' if the layer $Z = 2$ is rotated by 180° and the layer $Y = 3$ is rotated by 180° in the order indicated?
 - A) (0, 2, 2)
 - B) (2, 6, 2)
 - C) (8, 2, 2)
 - D) (8, 3, 2)
3. Which cube does not have a face which touches a face of the cube (4, 5, 3)?
 - A) (3, 5, 2)
 - B) (4, 5, 4)
 - C) (3, 5, 3)
 - D) (4, 6, 3)
4. What is the side of the largest cube that could be constructed using the cm. cubes which would have the greatest of the exterior cubes of the rectangular solid?
 - A) 7
 - B) 5
 - C) 6
 - D) None of the above
5. In what arrange is the exterior surface area of the rectangular solid that could be constructed from the cm. cubes which would have the greatest external surface?
 - A) 200—400
 - B) 400—800
 - C) 800—1200
 - D) None of the above.

II.

a	b	c	d	M
e	f	g	h	N
i	j	k	l	O
P	Q	R	S	T

Fig. 2

In Fig. 2 M, N, O are the sums of the entries in the respective rows and P, Q, R, S are the sums of the entries in the respective columns. Each of the table entries a, b, c, d—l is a positive number

For e.g.,

$$\begin{aligned}
 a + b + c + d &= M \\
 c + g + k &= R \\
 M + N + O &= P + Q + R + S = T
 \end{aligned}$$

6. If the numerical values for the capitals are all known, how few of the values for the lower case letters must also be given to assign correct values to all of the letters in the diagram?
 - A) 5
 - B) 6
 - C) 7
 - D) None of the above.

7. If the numerical values of the capital letters are known and also a, d, f, g, l are given, which group of the following entries can be obtained from the information given?
- A) (b, c, h) B) (b, e, h)
C) (e, h, i) D) None of the above
8. Which of the following statements is true?
If the value of all the capital letters are known, all of the values for the table entries can be found if—
- A) any six of them are known
B) three in each of 2 rows are known
C) all in each of 2 columns are known
D) a, c, e, f, g, h are known
9. When the values of M, P, c, d, e are known
- A) it is possible to find the value of 'a'
B) it is possible to find the value of 'a' & 'i'
C) it is possible to find the value of 'a' & 'b'
D) it is *not* possible to find the value of 'a'
- III A new number system is introduced to have five digits O, U, Ω , \mathcal{D} , C corresponding respectively to numbers—0, 1, 2, 3, 4. The digit 'O' is used in the same way as in our old system so that five is written as 'UO'
10. What is the equivalent of eight?
- A) CC B) U \mathcal{D}
C) U Ω D) UC
11. What is the sum of $U + \Omega + \mathcal{D} + C$?
- A) ΩO B) UOUO
C) UO D) None of the above
12. A brief case has a list price of Rs. UO and is sold at U/Ω off of list, what is the selling price?
- A) UO B) CO
C) ΩO D) None of the above.
13. Which of the following means 18?
- A) UOUOO B) $\mathcal{D}\mathcal{D}$
C) UCC D) None of the above.
14. What is $\Omega \times C$?
- A) U \mathcal{D}
B) $\mathcal{D}U$
C) CC
D) $\Omega\Omega\Omega\Omega$
15. What is $CC - \mathcal{D}\Omega$?
- A) ΩU
B) U Ω
C) U \mathcal{D}
D) None of the above.

IV. Ten professors at I.I.T., Madras were asked to judge the relative sweetness of five hostel sweets—

Cauvery — A; Krishna — B; Narmada — C
Tapti — D; Godavari — E; by the method

of paired comparisons. In judging each of the possible pairs they were required to unequivocally state which of the two sweets was sweeter; a judgment of equality or no difference was not permitted. The results of the judgment are summarised below.

In studying the table note that each cell entry corresponds to the no. of comparisons in which the row sweet was judged to be sweeter than the column sweets.

	A	B	C	D	E
A		5	8	10	2
B	5		3	9	6
C	2	7		7	8
D	0	1	3		4
E	8	4	2	6	

Fig. 3

16. How many sweets did each professor eat?
A) 10 B) 20 C) 30 D) 40
17. Which hostel sweet is judged to be the sweetest?
A) A B) B C) C D) D
18. Which hostel sweet was judged to be the least sweet?
A) A B) B C) C D) D
19. Which of the following statements is *most nearly* correct?
A) There was almost perfect agreement among the ten professors.
B) The clearest discrimination was between B & C
C) The professors' wives probably do not prepare good sweets.
D) Hostel D was most clearly discriminated from the other four.
20. Between which of the two sweets was the discrimination least consistent?
A) A & D B) B & A C) C & E D) D & C

BRAIN TEASERS

Answers

- | | | | |
|------|-------|-------|-------|
| 1. C | 6. B | 11. A | 16. B |
| 2. A | 7. C | 12. C | 17. A |
| 3. A | 8. B | 13. B | 18. D |
| 4. B | 9. D | 14. A | 19. D |
| 5. D | 10. B | 15. B | 20. B |

RATING

1. Superior	18 — 20
2. Good	14 — 17
3. Fair	10 — 13
4. Poor	6 — 9
5. Very poor	Below 5

Musings

By

Dr. T. GOPICHAND

A friendly letter from Mr. Hariharan suggesting that I should write for Pradeep stirred my soul. Prof. M. V. C. Sastri's brilliant idea that teachers should also become Alumni Association Members has helped me to retain the link with past associations. What can be a more glorious tribute to the idea that "Teachers and students are two faces of the same coin" than Prof. M. V. C.'s idea of calling both of them Alumni and making them remember each other at least once year through Pradeep.

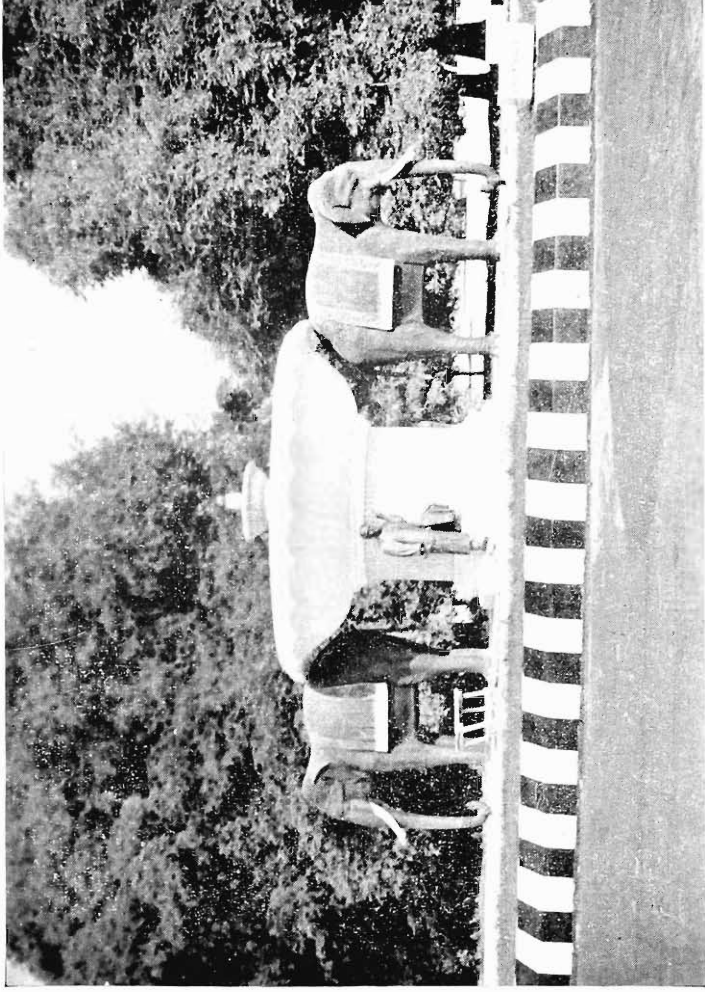
Once I saw a caption written by a rebellious youngster on a black board at I.I.T., Madras—"In youth one looks forward, in old age one looks backward and in middle age one is disillusioned". Age can be counted by years from birth but one can always judge a person for what he "is" not by his age. Human nature being what it is, we can see around us young people who are cynical and frustrated and old people bursting with energy, thinking and acting young.

Why should I bring this question of age? I would like to remind my friends these are "Musings". Does it mean waves of thoughts and memories? Yes, or let me say that is what I meant.

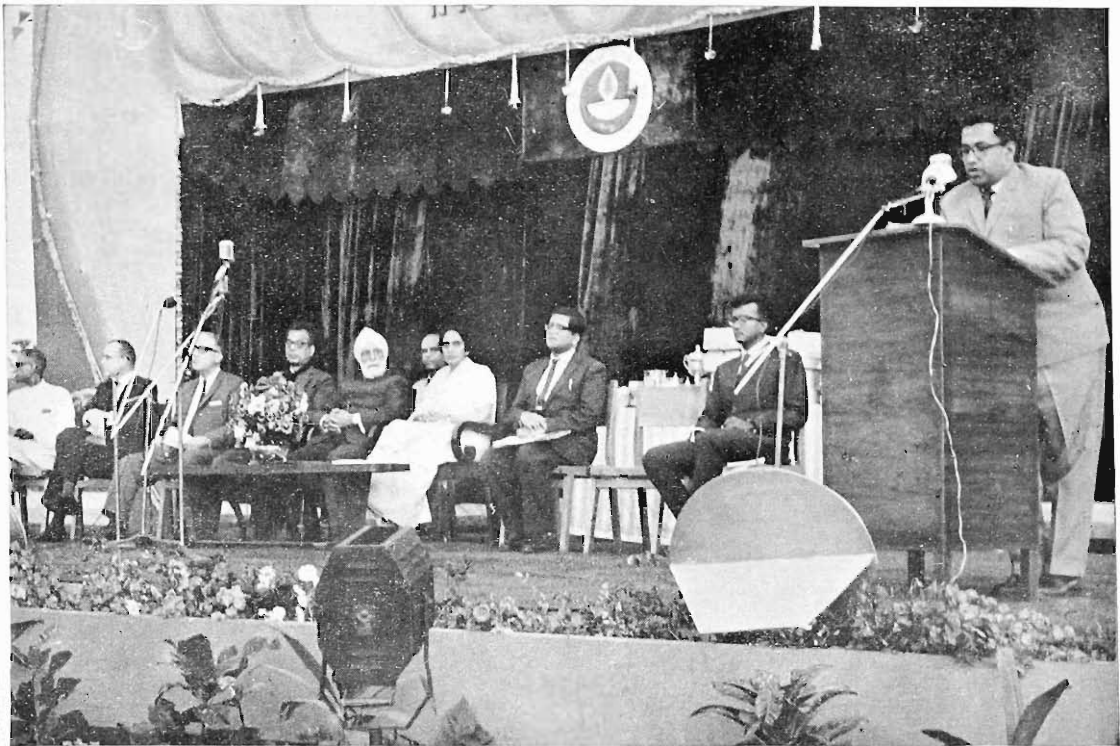
I remember the first independence day and first republic day being celebrated with pomp and glory. Expectations ran high. I can recall Jawaharlal Nehru's speech on the midnight of 15th August 1947... "to wipe out tears from every eye". As years passed by I remember reading the bulky independence day numbers of news papers printing a glorious future. But what are we as a Nation to-day?

One of my young student friends, years ago, invited me to take part in a seminar on "Who is responsible for the present fall in standards?—Teachers or students". I politely refused. I do not believe in being frustrated by eye catching slogans like "Fall in standards", "student indiscipline", "Brain drain" etc. Much worse, I told my young friend that I do not believe in fixing responsibilities. It is at best an academic exercise, which I abhor. I told my young friend "Let both teachers and students work hard and let the devil take care of standards".

Every thinking, patriotic soul, I think, should worry about the present day situation in our country, in every walk of life. The average Indian is honest and hard working. It is the intelligentsia that should provide a direction and meaning to our activities. May be the



New Look of Gajendra Circle



The outgoing President of the Gymkhana, Dr. P. C. Varghese reading the report



Dr. Reichel, Consul-General presenting the piano accordion to Prof. B. Sengupto

intelligentsia have to wrack their brains, make their hair grey, work hard and suffer, to provide the brain and brawn of our society.

Look around. Everywhere we have bound ourselves with rules and regulations. Who is afraid of whom? I do not know. Is it not a legacy of the old, a system contrived by the British to rule the multitude by a handful? An honest administrator once confessed—As long as the paper certificates are in order you can do anything you like, but you cannot do even a right thing when once the papers are not in order.

We lack challenge in our vocations. Our educational pattern does not contemplate a challenging task. We take the best students, select the best teachers and pay them well. Everything is done well. But the same story everywhere—our teachers have frustrations and our students are equally disillusioned.

It is true that we are slowly throwing every thing we believed in, in the past into the melting pot. We have not yet crystallised our ideas. Contentment is a sign of decay and unrest is a sign of progress. Can we state our aims and objectives clearly (without the usual high faulting hypocrisy) and organize bands of hard working people? For long we have practised stability by being conservative at the price of not caring for quality. Individually we are all good but as a team we are not pulling in the same direction.

Honest hard work pays in the long run. There are no short cuts for making a Nation. Can each one of us ask ourselves, every day, how much honest hard work we had put in? The frustrating obstacles will be there in any country. It is only we, who worry about them, a little too much.

Once in a committee, I blurted out, that every good idea is systematically killed and buried in our country. An American friend sitting by my side as an advisor said “so it is in my country. You young folks have to stick your neck out and cry from house tops what is good and fight for it”. How many of us are prepared to sacrifice and fight for the good we believe in?

Even John Kennedy had to remind his country men “Ask not what the country has done for you. Ask what you have done for your country”. Such is the price to be paid to attain good for the country.

Let us look back. When Gandhiji started non cooperation movement to fight for independence, did he not face obstacles and frustrations? How many doubting Thomases cried that independence cannot be attained that way?

Can we practise what we preach? Can we work hard, fight and sacrifice to propagate what we think is good? Can we forget our troubles and push ahead and create a faith to do our best for ourselves and our country? Can we recognise talent and give it the place of honour, rules or no rules? Can we stop bickering about the obstacles we have, and think about what we can achieve?

Let us say yes and start doing it. Let us remind ourselves that we are capable of achieving progress in every walk of life.

Excerpts from the 'Campastimes'

I. *September 1967.*

"BIG FIVE MEET"—The Directors of I.I.Ts. met at Madras to discuss routine matters concerning I.I.Ts. and also to review questions of grave concern. About the language issue they all are of the opinion that English will continue both as the medium of instruction and as the medium for conducting the joint entrance examinations.

"HUMOR IN UNIFORM"—Major Jaffery was trying to impress the freshers. 'We are here' he said, 'to inculcate in you, discipline.' The next moment the cadets were given a rifle each and were ordered to rush madly off in all directions shouting "Charge....."

II. *October 1967.*

Notice :—
F/Acad/67

23—9—1967
1st Asvini 1889 (Saka)

Sub. : Periodical Tests.

I am desired to inform you that the decision to cancel the postponed periodical tests remains cancelled. Instead there will be no periodical tests during the terminal examinations.'

Assistant Registrar
Academic.

Copy to : Head of Depts. (with 12 spare copies).
Ac-1/Ac-2/Ac-6.

Announcement : The swimming pool will positively be inaugurated at the end of the rainy season at the foot ball field.

Asst. Registrar (Admn.).

III. *December 1967.*

Prof. B. Sengupto laid down office as Director, I.I.T., Madras on 10th December 1967. At a farewell function held on 5th December, glowing tributes were paid to his role in the development of this Institute by the staff and students of the Institute.

From here and there :

Exhilarated by the masterly performance of one of the world's leading puppeteers the audience left the central lecture theatre, the life like movements of the puppets still fresh in their minds. According to the puppeteer Herr Albrecht Roser the IITian audience consisted of the most appreciative and critical spectators he had ever performed for.

Sportfollo :

26th December, 1967, will see the five sister I.I.Ts. pitted against each other in something one would expect to be not quite in the live. The fifth IIT Meet is being looked forward to with eager anticipation.

IV. *February 29, 1968.*(i) *Research to be augmented :*

Dynamic, that's the first impression we got of the new Director Dr. Arcot Ramachandran. The Institute, he feels, is now ready for the great leap forward to become the best of its kind in India.

Dr. Ramachandran believes that an Institute like ours does not stop growing. He said 'We must cooperate with industry both on individual and institutional basis. First we should go to the industry, identify its problems and solve them successfully. Then industry will be confident of our capacities and our name will be made'

Since teaching and research go hand in hand the Director said that any creative research worker would consider it a privilege rather than a burden to teach. He was prepared to give any amount of incentive to research workers but being exempted from teaching would definitely not be one of the incentives. Equipment belonging to any department would be available to any one in the Institute.

(ii) *Classified Divertisements :*

Film Club's public notice :—

In view of the language trouble the following schedule will be followed at the Saturday night movies ; Cartoons in Tamil ; Main picture (upto interval) in Hindi. Last half in English. It is hoped that the three language formula will provide suspense and entertainment in its own measure. Any inconvenience caused is also regretted.

Secretary—Film Club.

P.S. Watch for our next week's cartoons :—' Kattai Kadai Kothhara Kozhi ' (Woody Woodpecker)—Mootaipoochigal Muyal (Bugs Bunny).

(iii) *Invention Award for Mr. Sivaprasad Rao :—*

Mr. Chinthapalli Sivaprasad Rao of the Faculty of Chemical Engineering has been awarded Rs. 500 by the Inventions Promotion Board of the Government of India. This award was for his successful manufacture of "chromotographic grade silica gel" from den or flue gases from superphosphate plants. The product was manufactured by Mr. Rao entirely in the Chemical Technology Lab. in our Institute using the most simple equipment. Mr. Rao is the first person from any of the I.I.Ts. to win the award.

(iv) *From here and there :*

The open air theatre will soon be closed. Barbed wire fences will be erected around the pride of our campus bringing it down to abysmal depths from transcendal heights. Admission to film shows will henceforth be restricted to holders of film club tickets—tickets which can be stolen, misplaced or lost. . . . But fences can be broken and restrictions circumvented by film-crazy fans from ITT, Velacheri and the neighbouring institutions. In any case the beauty of O.A.T. will be a thing of the past.

Departmental News at a Glance

Department of Aeronautics and Applied Mechanics :

The Air-craft Structures Laboratory is being constructed behind the Fluid Mechanics Laboratory and is expected to be ready soon.

A model of the HJT-16 Air-craft, fabricated by the workshop of the Aeronautical Engineering Department of the Indian Institute of Science, Bangalore was acquired. This is a versatile model, in which the wing and tail assembly characteristics can be varied over large value. Fabrication of wing models for the smaller tunnel is in progress.

The Department continues to be active in its research projects. Dr. A. Klein and Dr. N. V. C. Swamy of the Fluid Mechanics Laboratory were invited to participate in the Specialists' meeting on Boundary Layers held in the Indian Institute of Science, Bangalore, last December under the auspices of the Commonwealth Aeronautical Advisory Research Committee.

Dr. N. V. C. Swamy of the Fluid Mechanics and Dr. R. S. Alwar of the Elasticity Laboratory are among those who have been offered fellowships by DAAD for working in Germany for a period of 12 months. Dr. B. V. A. Rao of the Vibrations Laboratory has been awarded the Alexander Von Humboldt Foundation Fellowship-67.

Department of Chemical Engineering :

Seminar on "Developments in Chemical Engineering" has been conducted from 4th to 11th February, 1968. Thirtyseven delegates from Industrial and Research Establishments from all over India took part in the Seminar. Fifty papers on Fluid and particle Technology, Heat and Mass Transfer, Mechanical Operations, Applied reaction kinetics and reactor design, and a number of related subjects of interest to Chemical Engineers have been presented in this Seminar.

Department of Civil Engineering :

The significant event in the structural engineering section this year is the inauguration of building work for the Structural Engineering Laboratory to be set up with West German Aid under the Second Indo-German Agreement. Prof. Karl Kordina of Technical University, Braunschweig, West Germany, visited the Institute from 7-1-1968 to 17-1-1968 as adviser for the Planning of the Laboratory and the equipments.

(i) Air Compressor with demolition tool, (ii) Balancing Unit for Electrical Strain Measuring Bridge, (iii) Photo Elastic Equipment (iv) High Precision Manometer, (v) Current Meters, (vi) Photo and Workshop Equipment and (vii) Universal triaxial testing equipment have been received.

Mr. M. H. Abdul Khader has submitted his Ph. D. thesis on 'Analysis on Curvilinear Flows in a Two-Dimensional Transition from a conduit to free surface'.

Mr. Sukesan Nair, Research Scholar in Structural Engineering has submitted his Ph.D. thesis.

Dr. W. Hensen, Professor and Director of the Franzius Hydraulic Engineering, Laboratory, Technical University, Hannover, W. Germany, visited the Hydraulics Laboratory on 30th November, 1967.

Dr. Plahn, German Professor joined the staff on 8th January, 1968, as Visiting Professor in Structural Engineering.

Dr. H. R. Rama Rao joined the staff on 14th November, 1967, as Lecturer in Hydraulic Engineering.

Department of Electrical Engineering :

The High Voltage Laboratories have received a 200 KV Schering Bridge for the testing of insulators. Our measurements laboratories have received a special purpose Automatic Calculator. The control engineering laboratories have acquired a servo-scope and certain types of transducers.

Research activities have been progressing with increasing momentum. Mr. Thulasiraman, Lecturer, has submitted his Doctoral thesis for evaluation.

The academic activities were given a considerable boost due to the short time visits and lectures given by four German Professors, all of them leaders in their respective fields of specialisation.

- (i) Prof. Doring, Microwaves and Antenna
- (ii) Prof. Sattler, Electrical Machines Theory
- (iii) Prof. D. Kind, High Voltage Engineering, and
- (iv) Prof. W. Leonhard, Control Engineering.

Plans are under consideration for the commencement, from the next academic year, of two additional specialisations in the M. Tech. course, namely, (i) Electric Drives, including Traction and (ii) Radar Technology.

It is hoped that these courses would serve to meet the developing needs of our country in the fields of industry, transportation, defence and space research.

Department of Mechanical Engineering :

Three water turbines, Kaplan, Francis and Pelton turbine have been commissioned.

The design, development and manufacture of prototype of a milling machine has been undertaken for a local firm in Madras. The designs of various elements have been worked out by the post-graduate students and the work has reached the stage of fabrication. This milling machine will have 12 spindle speeds and the speed gear box has been designed to be the most compact.

A Ultrasonic Drilling Machine and a Horizontal broaching machine have been received.

Dr. Hermann Heitmann has taken up position as Assistant Professor in Metrology and Machine Tools, Laboratory during November, 1967.

Mr. Gopalakrishnan has joined as Lecturer in the Turbomachines Laboratory.

Department of Metallurgy :

Under the auspices of the Local Chapter of the Indian Institute of Metals, functioning in the Department, the Fifth National Metallurgists' Day was celebrated on 15th November, 1967. A special lecture on "Development of Mineral based projects in Madras State" was delivered by Sri T. N. Lakshminarayanan, I.A.S., Secretary to Government, Department of Industries, Government of Madras.

The final year B. Tech. students went on an educational tour and underwent training at the integrated iron and steel plants at Jamshedpur, Rourkela and the alloy steel plant at Durgapur, besides at the National Metallurgical Laboratory.

The following are the important items of equipment added to the laboratory in the last few months :

1. A. microhardness tester,
2. Radiation Survey Meter,
3. Polarograph,
4. Spectrometer,
5. Universal Colorimeter.

A special fatigue testing machine to study the 'Inter-action of creep and fatigue at elevated temperatures' has been constructed by Mr. V. M. Radhakrishnan of Mechanical Engineering Department, who is working for his Doctorate in this Department.

A unit for deposition of thin films of metals in vacuum is being set up. Work on other research projects taken up earlier is progressing satisfactorily.

A number of metallurgical problems from the industry are being investigated in the Department.

Sri R. K. Srikanta Kumaraswamy has been promoted as Assistant Professor in the Department.

Mr. H. Md. Roshan has been promoted to the post of Lecturer in the Department.

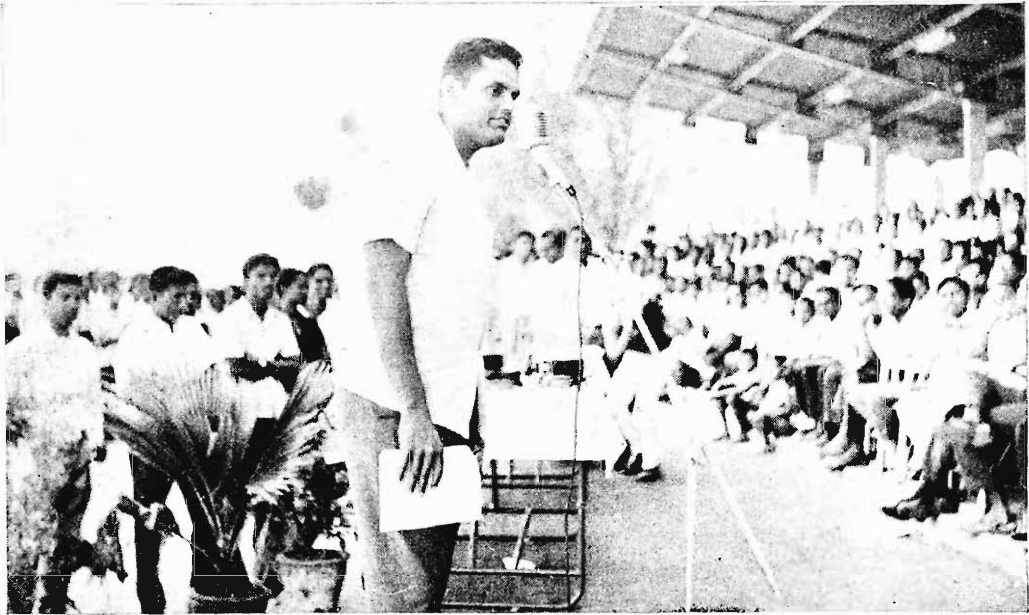
Dr. K. Srinivasa Raghavan left for Iowa State University, U.S.A. for post-doctoral work.

Dr. H. W. Wagner and Mr. E. Fischer have joined the department as German Professor and German Foreman respectively.

Department of Chemistry:

The usual tempo of research work is being maintained in the various branches of Chemistry. Some much needed equipment is expected to be purchased shortly from the American Petroleum Research Fund. A team of Advisers to the Federal German Ministry of Economic Cooperation, headed by Dr. Kerekhoff, visited the Department and had discussions with the Professor about the development of the Department.

ANNUAL SPORTS DAY 2nd MARCH, 1968



Mr. Ramanathan Krishnan, International Tennis Star, who was the Chief Guest, addressing the spectators at the Annual Sports Day

LITERARY AND CULTURAL WEEK: 4th TO 9th MARCH, 1968



The M.C.C. Entertainment team which won the Prof. R. G. Narayanamurthi Trophy, in the Inter Collegiate Entertainment Competition, with ease.



S. Subramaniam, General Secretary, Institute Gymkhana hands over to the Director, Dr. A. Ramachandran, about Rs. 7,000 - the collection made from the staff and students who held a Film Festival in aid of the Koyana Earthquake Victims

A high pressure catalytic flow reactor with its auxiliary units and other accessories has been received from Germany. The installation of the reactor would give a fillip to the research activities in the Department in the field of Technical Catalysis.

Mr. J. Rajaram, Lecturer, has gone through the *viva voce* on his thesis on 'The Kinetics and Mechanism of Bromination of p-Bromophenol'.

Mr. K. Narayanan, Lecturer, has submitted his thesis entitled 'Study of the Dehydration of Alcohols on Oxide Catalysts'.

Dr. Ch. Kalidas and Dr. S. R. Ramadas have been selected for acquiring special research experience in Germany under the auspices of D.A.A.D.

Department of Physics :

A four day symposium on Nuclear and Solid State Physics organised by the Bhaba Atomic Research Centre was held in I.I.T., Madras from 26th February to 1st March. The Department of Physics played host to the symposium. Six research papers were presented by this Department.

The possibility of active collaboration in research with the space project at Thumba is being explored.

Dr. C. Santaram and Dr. Y. V. G. S. Murti have joined as Lecturers.

Engineering Unit :

The construction of the tenth Hostel has been completed. Work on the Administrative Block is over and it will be opened shortly.

Work on the Aeronautics Laboratory and the extension to the Hydraulic Laboratory is in progress.

Institute Gymkhana

S. SUBRAMANIAM, GENERAL SECRETARY.

The year under review has been one of changes, starting off as we did with the new President, Dr. N. Klein. He has been associated with the Gymkhana ever since its inception, and his appointment came as no surprise to those who knew his missionary zeal in upholding the values of extracurricular activities in our Institute. To the students, more than his dynamism was the breadth of vision, broadmindedness and appreciation of student problems that he brought to his office. His readiness to delegate authority to the students, has reaped bountiful returns to the Gymkhana. With his appointment there was much anticipation of an active and meaningful year for the Gymkhana. However, other factors prevailed and as we wind up this year there is a feeling that much more could have been achieved—not in terms of our spree of silver collection but in matters of organization. It is my intention in this report to focus attention on these aspects of the Gymkhana which have remained under—cover of the glamour that prevails.

Before the Gymkhana has to make an impression on every one concerned, it is imperative that this Institute recognises not only in principle but also in practice the importance of extracurricular activities in any educational system. Undoubtedly some of the senior Professors have given encouragement all the way down. There are others who have paid mere lip service to the, "education not training", slogan while amongst the vast majority of the staff and students there exists not merely indifference but a plethora of cynicism about Gymkhana activities.

The Gymkhana has added in no mean measure to the image of this Institute and quite rightly so. While we do not advocate a negligence of studies, a little word of appreciation and gestures of encouragement from the staff whom we confront in the classes daily could help to build a more harmonious and congenial atmosphere in this campus.

In principle it is admirable that every hostel be represented in the Gymkhana committees and undoubtedly this democratic set up has led to the mobilization of the students at Gymkhana functions. However, Committees like the external affairs and publications call for personnel with specific abilities and not merely popularity amongst the student populace. Moreover the election of the General Secretaries of the Hostels has led to an artificial distinction between the Hostels and Gymkhana—a gap that has been rather irksome. To obviate these difficulties we recommend that :

- (1) The editor be nominated by the outgoing editor who, in turn, charts out his own editorial board.
- (2) The President, in consultation with the Secretaries, nominates the Public Relations personnel.
- (3) The General Secretaries of the hostels be a part of the Gymkhana and the General Secretary be a chosen Hostel representative to the Gymkhana.

The beginning of the academic year is a time of comparative leisure. However, through the years, this leisure has gone waste due to the long drawn elections. It would be advisable that the elections be conducted in the first two weeks and the formal inauguration takes place a day after the General Secretary's election. The organization of this function and the pre-election activities should be the responsibility of the outgoing members.

The literary and cultural teams of this Institute kept up our reputation, a reputation that has grown over the years. However, we can only ensure a continuance of such success if the tradition is handed down. Happily for us, a lot of talents in the junior years has been unearthed and we do hope that they shall be given encouragement in the coming years.

In the field of sports, however, barring a few games where our supremacy cannot be doubted, we have had very few achievements to talk about. The indifferent attitude towards games of a large section of the student body, the lack of interest of that department of the Gymkhana which should normally cater to this activity and the existing system of examinations may well be attributed to this. There has been a general feeling this year that the Physical Education Department be isolated from the Gymkhana. But such a break up would result in the removal of a unit from the delicate framework that the Gymkhana is and could challenge its very existence. Keeping the existing set-up as such, the Physical Training Instructors and the students should move as one unit towards a common goal, with the Institute providing the driving force by extending its fullest cooperation in suitably adjusting the academic curriculum. Staff participation, if any, has so far been restricted only to the cultural side of the Gymkhana ;

and for any improvement to be made in this field such participation should be extended in this direction also. Given such facilities and encouragement, our Institute could soon be a force to reckon with in the field of sports,

Much more could be achieved if the students were not shuffled from hostel to hostel. This shunting robs the hostels of a character and tradition and detracts from the enthusiasm that could be generated during intramural competition. Moreover if the freshers are from the beginning distributed among the hostels it would be possible to involve them in activities which they now neglect.

The story of the success of the Gymkhana is a story of a few people. It is regrettable that the student body has not identified itself with the Gymkhana to the extent it should. The sparse attendance at the inauguration and the total indifference to sports is an infectious disease which must be curbed before it spreads, if this Gymkhana has to exist.

What is even more regrettable, is that the I.I.T. audience which once was known to be critical and understanding, has turned boorish. It has brought discredit to this Institute during the Cultural Week, where many forgot that we were not just spectators, but more than that—the hosts.

The Gymkhana is unrivalled throughout the country in the amount of facilities and equipment it offers. No doubt we do not have a closed auditorium, or a shuttle badminton court; but these do not go to explain the malady in the student body. Often the existing periodical system has been used to explain the inactivity. To some extent it is justified but, more often than not it has been used to cover up for our general lethargy.

The spirit of participation cannot be infused, it must come from a sense of belonging. The potentialities are enormous and the possibilities unlimited and the students must take it upon themselves to exploit them.

It is impossible for the Gymkhana to work in isolation. It needs the encouragement of the authorities and I must thank the Director, Dr. Ramachandran, Professor Sampath and Professor Sethunathan who have not only been a constant source of encouragement, but have never hesitated to give us a helping hand when we needed it.

Looking back, it has been a year of proud achievements and happy associations. The Gymkhana has grown from strength to strength. As we leave the portals of this Institute we are confident that those we leave behind will keep the IIT banner flying.

The Alumni Association

INDIAN INSTITUTE OF TECHNOLOGY, MADRAS-36.

Annual Report for the year 1967-68.

It is a great pleasure for me to place before you this annual report of the Alumni Association for the period 1967-68. The membership of the Association has grown from 790 in July, 1967 to 1042 to-date. The membership from the first four batches of alumni was satisfactory, but the alumni who will be receiving their degrees this year are a bit disappoint-

ing. The response especially from the Post Graduate students, is very poor. It is the right spirit and faith that build up an organisation like this. I am sure the I.I.Tian spirit will reassert itself and swell the ranks of our membership.

I like to emphasise on this occasion that the main purpose of our Alumni Association is to establish lasting relationship between the alumni and their Alma Mater. The need for a medium of effective communication between the alumni who are scattered all over the world, and between the alumni and their Alma Mater is, we hope, provided by the 'News Letter' of the Alumni Association. The response from the alumni was very good during the first two years but now, to be frank, it is not encouraging. Last year we could bring out only one issue of the 'News Letter', the second is being brought out as a part of the Annual Magazine 'Pradeep'.

The Alma Mater apart from keeping in close touch with her alumni, always likes to have first-hand information about her alumni and their activities both curricular and extra-curricular. With this in view, the Association office maintains a complete record of the alumni.

The Association has contacted quite a large number of Universities abroad and the information we compile is very useful to the students.

This year has seen a lot of changes in the Alumni Association set up. With the retirement of Prof. B. Sengupta, Dr. A. Ramachandran, our new Director is the patron of the Association. Prof. R. G. Narayanamurthi took charge as the President of the Association from Prof. M. V. C. Sastri, the founder President to whom the Association owes a lot for its growth and nourishment. Dr. P. Srinivasa Rao took charge as Treasurer from Dr. B.V.A. Rao. As Prof. R. G. Narayanamurthi is away on a foreign assignment, Dr. P. Venkat Rao is now the Acting President.

As regards the News Letter, I like to remind you that it is an offspring of your Association and that only on your contributions it thrives. I am sure, it gives great pleasure to everyone to know about our dear ones from I.I.T., Madras. I am sure your alumni will not give any chance to the Association to drop publishing the News Letter and Pradeep. Kindly keep the Association informed of your occupation, experiences, successes, change of address or any other information you feel I.I.Tians would like to know.

I am glad to inform you that this year a chapter of the Association has been formed at Hardwar; we wish many more chapters to come up at other centres.

Most of the alumni of the previous batches are well placed in life and the Placement Section of the Association is doing its best to place each alumnus in a position he likes.

I will be failing in my duty, if I don't record with gratitude the services rendered by the members of the Editorial Board.

In conclusion, I express my thanks to the President and the office bearers of the Association, the staff members of the Institute and most of all to the alumni who have helped a great deal in the growth and prosperity of this Association. Our motto being सहवीर्यं करवावहे

"Let us strive together to exhibit fully the lustrous glory of our Alma Mater"

Dated: 31-7-1968.

N. HARIHARAN,
Secretary.

THE EXECUTIVE COMMITTEE OF THE ALUMNI ASSOCIATION FOR THE YEAR 1967-1968



Sitting : (L to R) V. D. Muthiah, Dr. Ing. P. Srinivasa Rao, Prof. R. G. Narayanamurthi,
Prof. P. Venkata Rao, N. Hariharan

Standing : (L to R) P. S. Rajagopalan, M. Balasubramanian, M. R. Sridharan,
J. Pattabhiraman, S. Parthasarathy

DISTINGUISHED GUESTS



Dr. G. Kerckhoff, Minister for Economic Cooperation, Bonn, laid the foundation stone for the Machine Elements and Mechanical Handling Laboratory on 14th March, 1968

INDIAN INSTITUTE OF TECHNOLOGY, MADRAS-33.
Placement position of the students of the first four batches.

Year	Total passed out	Studying in India	Studying abroad	Employed abroad	Employed in India		Un-employed	Position not known
					Private Sector	Public Sector		
1964	106	12	17	5	34	38		
1965	163	20	30		43	59
1966	246	40	29	4	90	79	2	2
1967	319	62	31	4	70	76	19	57
	834	134	107	24	237	252	21	59

MARRIAGES

- PRASAD :** V. L. PRASAD (B. Tech. Elec. 1964) with Varsha at Ahmedabad on 7th April, 1968.
- NANDAKUMĀR DAVE :** NANDAKUMAR R. DAVE (B. Tech. Civil. 1965) with Sugna at Madras on 21st May, 1968.
- ABDUL KHADER :** M. A. ABDUL KHADER (B. Tech. Civil. 1967) with Mehrunnisa at Alwaye on 26th May, 1968.
- SUDHIR CHANDRA :** B. S. SUDHIR CHANDRA (B. Tech. Civil. 1964) with Vatsala at Mysore on 3rd June, 1968.
- RANGASWAMY :** K. V. RANGASWAMY, [B. Tech. (Civil) 1965] with Chitra at Kumbakonam on 6th June, 1968.

Alumni Directory

- Abdul Hamid (1967 B. Tech. Chemical)**
Engineer Trainee, M/s. Orient Paper Mills Ltd., Brojrajnagar, Sambalpur District, Orissa.
- Abdul Khader M.A. (1967 B. Tech. Civil)**
Design Engineer, Chartered Architect, Cochin.
- Abdur Rahim Khan (1967 B. Tech. Civil)**
Abimanyu Neogi (1967 B. Tech. Mechanical)
Undergoing 1 year course in Plastics Engineering at I.I.T., Bombay.
- Achutha Pai G. (1966 B. Tech. Mechanical)**
Graduate Apprentice, M/s. Ashok Leyland Ltd., Ennore, Madras-51.
- Achutha Ramiah S. (1967 B. Tech. Electrical)**
Joined Indian Air Force, Technical Branch (Signals).
- Achutha H. (1965 M. Tech. Civil)**
Associate Lecturer, Department of Civil Engineering, I.I.T., Madras.
- Achuthan T. G. (1967 B. Tech. Electrical)**
- Advani S. D. (1967 PGDIE)**
Assistant Professor, Victoria Jubilee Technical Institute, Bombay.
- Ajai Kumar Dikshit (1967 B. Tech. Mechanical)**
Studying M.S. at the University of British Columbia, Canada.
Address: 3707, W. 28th Avenue, Vancouver-8, British Columbia, Canada.
- Ajai Kumar Mithal (1967 B. Tech. Metallurgy)**
Metallurgist M/s. Saru Swelling and Refinery Corporation, Sardhara Road, Meerut.
- Akshaya Kumar S. (1965 M. Tech. Civil)**
Junior Engineer, P.W.D. Badagara P.O., Kerala.
- Albert D. A. D. (1966 B. Tech. Electrical)**
Associate Lecturer, Vallivalam Desikar Polytechnic, Nagapattinam, Tanjore District.
- Aleem S. A. (1965 B. Tech. Electrical)**
Factory Administration Trainee, The Indian Cable Company, Ltd., Jamshedpur.
- Alex Jacob (1966 M. Tech. Civil)**
Pursuing M.S. in the University of Sydney, Sydney, N.S.W. Australia.
- Alex Philipose Joseph (1967 B. Tech. Mechanical)**
Studying at Indian Institute of Management, Ahmedabad.
- Aloke Kumar Paul (1967 B. Tech. Mechanical)**
Amal Krishna Biswas (1965 B. Tech. Civil)
Technical Assistant, Rural Health Unit and Training Centre, Singur P.O., Hooghly District, West Bengal.
- Amitav Patnaik (1965 B. Tech. Metallurgy)**
Amitava Ray (1966 B. Tech. Electrical)
Graduate Apprentice, M/s. Andrew Yale & Co., P.O. Sitarampur, Burdwan District, West Bengal.
- Amitava Saha (1967 B. Tech. Electrical)**
Studying at the Indian Institute of Management, Ahmedabad.
- Amudachari V. (1964 B. Tech. Mechanical)**
Graduate Apprentice, M/s. Ashok Leyland Ltd., Ennore, Madras-51.
- Anand Kumar Aggarwal (1967 B. Tech. Chemical)**
(Particulars not received)
- Anand Swaminathan (1966 B. Tech. Civil)**
(Particulars not received)
- Ananda Bhat P. (1964 B. Tech. Chemical)**
Research Fellow, Chemical Engineering Department, I.I.T., Kharagpur.
- Anantharama Iyer A. (1966 B. Tech. Electrical)**
Technical Management Trainee, The Associated Battery Makers (Eastern) Ltd., Calcutta-20.
- Ananthanarayanan G. (1967 B. Tech. Electrical)**
Engineer, M/s. Larsen and Toubro Ltd., Calcutta.
- Ananthanarayanan K. A. (1966 M.Sc. Chemistry)**
Research Scholar, Department of Chemistry, Univ. of Calgary Alberta, Canada.
- Ananthanarayanan P. (1967 M. Tech. Chemical)**
Engineer, The Fertilizers and Chemicals, Travancore Ltd. Alwaye.
- Ananthasubramanyam R. V. (1966 B. Tech. Mechanicals)**
Graduate Apprentice, M/s. Ashok Leyland Ltd., Ennore, Madras-51.
- Ananthasubramanian S. (1967 B. Tech. Mechanical)**
- Ananthu T. S. (1965 B. Tech. Electrical)**
Operations Research Analyst, M/s. ESSO Mathematics and Systems Inc. U.S.A.
Address: C/o ESSO Research and Engineering Co., P.O. Box 101, Florham Park, New Jersey, 07932, U.S.A.
- Angamuthu A. (1966 B. Tech. Mechanical)**
Senior Technical Assistant, Department of Mechanical Engineering, I.I.T., Madras.
- Anil Kumar Gupta (1967 B. Tech. Civil)**
(Particulars not received)
- Anil Kumar Mithal (1964 B. Tech. Metallurgy)**
Apprentice Officer, Textile Machinery Corporation, Belgharia, 24 Parghanas, West Bengal.
- Anil Kumar Shenoy (1966 B. Tech. Electrical)**
Customer Engineer, I.B.M. World Trade Corporation, 151, I.O.B., Buildings Madras-2.
- Anjaneya Durga Prasad G. (1967 B. Tech. Electrical)**
(Particulars not received)
- Annapoorni L. (1964 M.Sc. Physics)**
Doing Ph.D. in the University of Seattle Washington, U.S.A.
- Anto Varkey (1967 B. Tech. Mechanical)**
Studying M. Tech. at I.I.T., Madras.

- Appa Rao K. (1967 B. Tech. Electrical)**
- Aravamudan V. (1965 M.Sc. Physics)**
(Employed in Bharat Electronics Ltd., Bangalore)
- Aravindan P. K. (1966 B. Tech. Civil)**
Technical Teacher Trainee, Department of Civil Engineering, College of Engineering, Guindy, Madras-25.
- Aravindakshan Nair C. M. (1965 B. Tech. Electrical)**
Assistant Engineer, ALIND, Kundara, Quilon.
- Arun Kumar Mehrota (1964 B. Tech. Civii)**
(Particulars not received)
- Arun Kumar Nayyar (1967 B. Tech. Mechanical)**
Senior Apprentice, Institute of Armament Technology, Girinagar, Poona-25.
- Arunswamy (1967 B. Tech. Civil)**
Studying M. Tech. at I.I.T., Kharagpur.
- Asanare K. L. (1964 B. Tech. Electrical)**
(Particulars not received)
- Ashok Khanna (1967 B. Tech. Mechanical)**
- Ashok Kumar Chhabra (1967 B. Tech. Electrical)**
Graduate Apprentice, Sales Division, M/s. Philips India Ltd., New Delhi.
- Ashok Kumar Ghosh (1965 B. Tech. Civil)**
Graduate Engineer, Bridge & Roof Co. India Ltd., Calcutta.
- Ashok Kumar Jauhari (1967 B. Tech. Civil)**
Assistant Engineer (Civil), M/s. Continental Construction (Private) Ltd., Obra Dam Project, Obra, U.P.
- Ashok Kumar Kharbanda (1967 B. Tech. Mechanical)**
Studying at the Indian Institute of Management Ahmedabad.
- Ashok Sharma (1966 B. Tech. Electrical)**
Engineer, I.B.M. World Trade Corporation, New Delhi.
- Asirvatham G. (1966 M. Tech. Mechanical)**
(Particulars not received)
- Avinash Malhotra (1967 B. Tech. Chemical)**
Junior Executive Trainee, Fertilizer Corporation of India, Naya Nangal P.O., Punjab.
- Babu Rao T. (1967 M. Tech. Civil)**
Senior Research Fellow, (C.S.I.R.), College of Engineering, Guindy, Madras-25.
- Balachandra Iyer V. (1967 B. Tech. Electrical)**
Studying M. Tech. at I.I.T., Madras.
- Balachandran K. (1966 B. Tech. Mechanical)**
Studying M S. in the Washington University, U.S.A.
Address: C/o Dr. C. H. Narayana, 1054, Francies Place, Richmond, Heights, St. Louis, Missouri, M.O. 63117, U.S.A.
- Balakrishnamurthy P. S. (1966 M. Tech. Electrical)**
Lecturer, Electrical Engineering Department, Coimbatore Institute of Technology, Coimbatore-14.
- Balakrishnan N. (1967 M.Sc. Chemistry)**
- Balakrishnan N. S. (1966 B. Tech. Chemical)**
Studying M.S. in the University of Cincinnati, U.S.A.
- Balasubramanian K. (1966 B. Tech. Electrical)**
Assistant Engineer, (Special Project Team), Bharat Electronics Ltd., Bangalore-13.
- Balasubramanian M. (1966 B. Tech. Chemical)**
Completed his M. Tech. course in Chemical Engineering at I.I.T., Madras. Shortly proceeding abroad for higher studies.
- Balasubramanian M. (1966 B. Tech. Electrical)**
- Balasubramanian R. (1967 B. Tech. Mechanical)**
Studying M. Tech. at I.I.T., Kanpur
- Balasubramanian S. (1966 B. Tech. Electrical)**
Engineer, Avadi Tank Factory, Madras-54.
- Balbir Kumar Chopra (1967 B. Tech. Chemical)**
(Particulars not received)
- Baldev Kumar Sharma (1967 B. Tech. Metallurgy)**
- Bapat V. W. (1965 B. Tech. Metallurgy)**
(Particulars not received)
- Barde B. K. (1967 B. Tech. Chemical)**
Studying M S at the Michigan School of Mining and Technology, Michigan, U.S.A.
- Basavaraj T. N. (1967 M.Sc. Physics)**
Studying M. Tech. at I.I.T., Delhi.
- Basheer Ahmed S. (1965 B. Tech. Electrical)**
(Particulars not received)
- Basu John Vetteth (1965 B. Tech. Mechanical)**
Research Scholar, Department of Mechanical Engineering, I.I.T., Madras-36.
- Bagat P. K. (1965 B. Tech. Electrical)**
Doing Ph.D. in the University of Ohio, U.S.A.
Address: 62, West St Clair Street, Cincinnati, 45219, Ohio, U.S.A.
- Bhagban Das (1966 B. Tech. Civil)**
Junior Research Officer, Quality Control Party, Expressway Project, Chandikhol Division, Haridaspur District, Cuttack, Orissa.
- Bhagawan K.R.S. (1966 B. Tech. Mechanical)**
Engineer, M/s. Ranga Structurals Ltd., Poonamallee, Madras.
- Bhajan Pal Singh Sethia (1967 PGDIE)**
- Bhaskaran P.S. (1967 B. Tech. Chemical)**
Engineer. M/s. Chemoleum Products Ltd., Madras-43.
- Bhag Chand Jain (1966 B. Tech. Chemical)**
(Particulars not received)
- Bhagiradha Rao E. S. (1965 B. Tech. Metallurgy)**
Junior Scientific Officer, Defence Research and Development Organisation, Pisal Banda P.O., Yakutpura, Hyderabad-23.
- Bhamy Venkataramana Shenoy (1965 B. Tech. Mechanical)**
Employed in a Private Firm in U.S.A.
Address: Apt. No. 62, 715, Monument Road, Ponca City, ORI, 74601, U.S.A.
- Bhanumurthy B. S. (1965 M. Tech. Electrical)**
Lecturer, Department of Electrical Engineering, I.I.T., Madras-36.
- Bhaskaranarayana A. (1965 B. Tech. Electrical)**
Junior Scientific Officer, L.R.D E., P.B. No. 108, Bangalore.
- Bhass E. K. (1965 B. Tech. Civil)**
Lecturer, College of Engineering, Trichur-9.

- Bhawalkar S. M. (1965 B. Tech. Civil)**
(Particulars not received)
- Binay Kumar Sarkar (1967 B. Tech. Electrical)**
Studying M. Tech. at I.I.T., Kharagpur.
- Birendra Kishore Sinha (1966 B. Tech. Metallurgy)**
Graduate Apprentice, TISCO, Jamshedpur.
- Brahma Swarup Gilra (1967 B. Tech. Chemical)**
Studying at the Indian Institute of Management, Ahmedabad.
- Cama Farhad Jamshed (1967 B. Tech. Chemical)**
Studying M.S. at the Cornell University, Ithaca, U.S.A.
- Camillus John Caius (1966 B. Tech. Mechanical)**
Studying at the Indian Institute of Management, Ahmedabad-9.
- Carol Fairstone Syiemlieh (1965 B. Tech. Electrical)**
Assistant Electrical Engineer, Assam Cements Limited, Cherrapunji, Assam.
- Chakrapani P.R. (1966 B. Tech. Mechanical)**
Engineering Probationer, Hindustan Aeronautics Ltd., Balanagar, Hyderabad-37.
- Chand Deepak (1966 B. Tech. Chemical)**
Studying M.S. in the University of Florida, U.S.A.
Address: Apt 310-704, S.W. 16th Avenue, Gainesville, Florida, U.S.A.
- Chandak S.S. (1965 B. Tech. Chemical)**
Employed in U.S.A.
Address: 3140, S. Michigan, Apt. 301, Chicago, Illinois, 60616, U.S.A.
- Chandan Kumar Das (1965 B. Tech. Civil)**
(Particulars not received)
- Chandralekha (1966 M.Sc. Mathematics)**
Studying in U.S.A.
- Chandra Mohan Das (1966 B. Tech. Electrical)**
Assistant Engineer, Electrical Engineering Department, Fertilizer Corporation of India, Namrup Division, Parbatpur P.O., Lakhimpur District Assam.
- Chandra Mohan Punhani (1963 B. Tech. Electrical)**
Assistant Engineer, U.P. State Electricity Board, Lucknow.
- Chandra Mouli M.S. (1966 B. Tech. Electrical)**
Assistant Sales Engineer, M/s. Hindustan Brown Boveri, New Delhi.
- Chandramouli P. (1966 B. Tech. Chemical)**
Pursuing higher studies in the University of Waterloo, Ontario, Canada.
- Chandrasekhar R. (1967 B. Tech. Metallurgy)**
Studying M.F. at the Indian Institute of Science, Bangalore.
- Chandrasekhara Murthy M. (1967 B. Tech. Mechanical)**
Studying M.S. in the University of Houston, Texas, U.S.A.
- Chandrasekharan K. (1965 B. Tech. Chemical)**
Chemical Engineer, Andhra Pradesh Paper Mills, Rajmundry, A.P.
- Chandrasekharan S. (1965 P. Tech. Metallurgy)**
Junior Scientific Officer, Defence Research and Development Organisation, Phisalbanda P.O. Yakutpur. Hyderabad-24.
- Chandrasekharan V. (1967 B. Tech. Metallurgy)**
Studying M.S. in the Michigan University, East Lansing, Michigan, 48823, U.S.A.
- Chandrasekharan Y. (1967 B. Tech. Mechanical)**
Studying PGDIE Course at I.I.T., Madras-36.
- Chandy K.M. (1965 B. Tech. Electrical)**
Research Scholar, M.I.T., Cambridge, U.S.A.
- Charanjit Singh (1967 B. Tech. Mechanical)**
Senior Management Trainee, M/s. Hindustan Lever Limited, Bombay.
- Chaunker P.S. (1965 B. Tech. Metallurgy)**
Junior Scientific Officer, Defence Research and Development Organisation, Phisalbanda P.O., Yakutpur, Hyderabad-23.
- Chidambareswaran P.K. (1966 M. Sc. Physics)**
(Research Assistant Textile Research Centre, Bombay)
- Chiman Lal Chawda (1964 B. Tech. Electrical)**
Pilot Officer, Air Force Training College, Jalahalli West, Bangalore-15.
- Chinna Rao M. (1966 B. Tech. Electrical)**
Completed him M. Tech. Course in Electrical Engineering at I.I.T., Madras-36.
- Chockalingam P. (1967 M. Tech. Civil)**
Employed in a Private Firm in Malaysia.
Address: 79, LEBOH AMPANG, KUALA LUMPUR, MALAYSIA
- Dan Vir Shankar (1966 B. Tech. Mechanical)**
(Particulars not received)
- Daniel Sathiaraj (1967 M.Sc. Mathematics)**
Lecturer. St. John College, Palayamkottai, Tirunelveli District.
- Das K. R. (1965 M. Tech. Chemical)**
Research Scholar, Department of Chemical Engineering, KIEV POLY-TECHNICAL INSTITUTE, KIEV-USSR.
- Dayananda B. (1967 B. Tech. Mechanical)**
(Particulars not received)
- Deepak Kapoor (1967 B. Tech. Electrical)**
Probationary Engineer, Hindustan Aeronautics Ltd., Balanagar, Hyderabad-37.
- Desh Pande Nayan Ganesh (1966 B. Tech. Mechanical)**
Studying M. S. in the Carnegie Institute of Technology, Pitsburg, Pennsylvania—U.S.A.
- Desikan K. (1966 B. Tech. Metallurgy)**
Associate Lecturer, Regional Engineering College, Trichy-14
- Devadas Kamath (1966 B. Tech. Metallurgy)**
Production Assistant, TISCO, Jamshedpur-1.
- Devanathan R. (1964 B. Tech. Mechanical)**
After completing M. Tech. Course in Industrial Engineering and Operations Research, he has joined M/s. Sarabai Group Services as a Research Analyst at Baroda.
- Devanani P. (1964 B. Tech. Mechanical)**
Assistant Mechanical Engineer, Mechanical Engineering Department, Bokaro Steel Ltd., Bokaro Steel City, Bokara.
- Devendra Pal Sharma (1966 B. Tech. Civil)**
Assistant Engineer, Office of the L. S. G. E. D. Mahoba, Hamirpur District. U.P.
- Devidas Hari Kirane (1967 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Bombay.
- Dhandapani G. (1967 B. Tech. Metallurgy)**
Studying M.E. at the Indian Institute of Science, Bangalore.

- Dhian Singh Negi (1966 B. Tech. Electrical)**
(Particulars not received).
- Dilip Kumar Shaw (1966 B. Tech. Chemical)**
Studying M. S. in the Michigan Technical University,
U.S.A.
Address: C/o. Foreign Student Adviser, Michigan Tech.
University, Houghton, Michigan, 49931, U.S.A.
- Eswaran C. (1964 B. Tech. Electrical)**
Completed his Technical Teacher Trainee Course at I.I.T.,
Madras-36.
- Eswaran P. V. (1967 B. Tech. Electrical)**
Technical Assistant, Control, Guidance and Instrumentation
Division, Space Science and Technology Centre, Trivan-
dram.
- Esmail Akbar Olia (1965 B. Tech. Mechanical)**
Studying M.S. at Vilonova University, U.S.A.
- Fernandez O. W. L. (1966 B. Tech. Mechanical)**
Engineering Trainee M/s. Metal Box Co. of India (Paper
Group) Worli, Bombay.
- Francis M. S. (1966 M. Tech. Mechanical)**
Associate Lecturer, Department of Mechanical Engineering,
I.I.T., Madras-36.
- Gajanan Rajaram Kamat (1967 B. Tech. Metallurgy)**
Trainee, Bhabha Atomic Research Centre, Trombay,
Bombay.
- Gambhir R. D. (1964 M. Sc. Physics)**
Research Scholar, Department of Physics, Indian Institute of
Science, Bangalore-12.
- Ganesan K. (1966 B. Tech. Mechanical)**
Senior Management Trainee, M/s. India Pistons Ltd.,
Sembiam, Madras-11.
- Ganesan N. (1967 B. Tech. Mechanical)**
Senior Technical Assistant, Department of Applied
Mechanics, I.I.T., Madras-36.
- Ganesan R. (1967 M. Sc. Physics)**
(Particulars not received)
- Ganesh A. (1966 B. Tech. Chemical)**
Technical Assistant, M/s. Union Carbide India Ltd.,
Bombay-71.
- Ganesh R. (1964 B. Tech. Mechanical)**
After Completing his M.E. Course in I.I.Sc. Bangalore, he
has joined as Lecturer in the Department of Mechanical
Engineering of the above institution.
- Ganesh Karnath N. (1967 B. Tech. Chemical)**
Studying M.E. Course at I.I.Sc. Bangalore-12.
- Ganeshnath Prabhu J. (1967 B. Tech. Mechanical)**
(Particulars not received).
- Ganga Kao H. V. S. (1965 B. Tech. Civil)**
Pursuing higher studies in the University of North Carolina,
Address: Apt 29, Bagwell Avenue, Raleigh, North
Carolina, U.S.A.
- George Philip (1967 B. Tech. Civil)**
Studying in West Germany.
Address: Aluminium Hutte Rheinfelden, 7888, Rhein-
felden Baden GmbH, Friedrichstrasse-80, West Germany.
- Girish Chandra Das (1966 M. Tech. Electrical)**
Assistant Technical Officer, Fertilizer Corporation of India
Ltd., Namrup Division, Assam.
- Gobind B. M. (1966 B. Tech. Electrical)**
(Particulars not received)
- Gopal P. (1966 B. Tech. Mechanical)**
(Particulars not received)
- Gopal R. (1966 M. Sc. Chemistry)**
Research Scholar, Department of Chemistry, MacMaster
University, Hamilton, Ontario, Canada.
- Gopal V. (1967 B. Tech. Metallurgy)**
Apprentice Engineer, India Cements Foundry Division,
Madras-16.
- Gopalakrishnan B. (1966 M. Tech. Civil)**
Assistant Director, Central Water Power Commission,
S W.R. Directorate, Block No. 2, R.K. Puram, New
Delhi-2.
- Gopalakrishnan S. (1964 B. Tech. Mechanical)**
Research Fellow, Massachusetts Institute of Technology,
Massachusetts, U.S.A.
Address: Cambridge, Massachusetts, 02139, U.S.A.
- Gopal Kumar Banerjee (1964 B. Tech. Electrical)**
Works Engineer, Harwaging Coal Handling Plant, Stage
III, Kasimpur, Aligarh, U.P.
- Gopal Ramachandran (1967 B. Tech. Electrical)**
Employed in Nigeria.
Address: C/o. Mr. Ramachandran, Indian Ambassador,
in Nigeria, Lagos.
- Gopala Krishna Avadhani (1967 B. Tech. Metallurgy)**
Associate Lecturer, Department of Metallurgy, Karnataka
Regional Engineering College, Srinivas Nagar P.O.,
Mysore.
- Gopalakrishna Chauhan (1967 B. Tech. Chemical)**
Management Trainee, M/s. J. K. Chemicals, Tana, Bombay.
- Gopal Rao J. (1967 M. Tech. Electrical)**
Research Scholar, Department of Electrical Engineering,
I.I.T., Kanpur.
- Gopala Rao Y. (1967 B. Tech. Electrical)**
Technical Teacher Trainee, Department of Electrical
Engineering, I.I.T., Madras-36.
- Gopala Reddy K. V. (1966 M. Tech. Chemical)**
Senior Scientific Assistant, Synthetic Drugs Ltd. Hyderabad.
Address: C. 159. Synthetic Drug Colony, Balanagar
Township, Hyderabad-37.
- Govindarajan F. S. (1967 B. Tech. Civil)**
Engineer-Trainee, Design Section, Civil Engineering
Division, M/s. Tata Ebasco Consulting Services, Carnac,
Bombay.
- Govindarajan S. (1966 B. Tech. Electrical)**
Trainee, Bhabha Atomic Energy Centre, Bombay-50.
- Govind Das Daga (1964 B. Tech. Civil)**
Design Engineer, Daga Rice Mills, Arang, Bhilai.
- Gowrinathan S. (1964 B. Tech. Electrical)**
Research Scholar, Brooklyn Polytechnic Institute, Brooklyn,
New York, U.S.A.
- Gowrishankar A. (1966 B. Tech. Mechanical)**
Engineering Probationer, Hindustan Aeronautics Ltd.
Balanagar, Hyderabad-37.
- Gowrishankar S. (1964 M. Sc. Physics-M. Tech. Metallurgy)**
Materials Engineer, SSTC. Thumba Rocket Station, PB. 35,
Trivandrum-1.

- Gowrishankar S. (1967 B. Tech. Metallurgy)**
Engineering Graduate Apprentice, Mysore Iron and Steel Ltd., Bhadravathi, Mysore.
- Gowrishankar Patnaik (1967 B. Tech. Electrical)**
Assistant Engineer (Design), Orissa State Electricity Board, Bhubaneswar.
- Gulshan Rai Sethia (1967 B. Tech. Electrical)**
Electrical Engineer, M/s. Modi Spinning and Weaving Mills Ltd., Modinagar, Meerut.
- Gurinder Mohan Singh Rana (1967 B. Tech. Civil)**
(Particulars not received)
- Gurinder Singh Grewal (1967 B. Tech. Mechanical)**
Studying M.S. in the University of Kansas, Lawrence, U.S.A.
- Gurucharan Singh Sawhney (1967 B. Tech. Mechanical)**
(Particulars not received)
- Gurucharan Singh Siddhu (1967 B. Tech. Mechanical)**
Studying M.S. at the Stanford University, U.S.A.
- Gurudas G. Trasi (1967 B. Tech. Metallurgy)**
S.T.A. Dept. of Metallurgy, I.I.T., Bombay.
- Gurunathan V. (1965 M. Tech. Mechanical)**
Research Scholar, Department of Mechanical Engineering, McMaster University, Hamilton, Ontario, Canada.
- Guruswamy B. A. (1967 B. Tech. Mechanical)**
Studying under the Burmah-Shell Scholarship Scheme at the Loughborough Training College, U.K.
- Gyanendra Nath (1964 B. Tech. Metallurgy)**
Graduate Engineer, Hindustan Steel Ltd., Bhilai.
- Harbajan Singh (1967 B. Tech. Civil)**
(Particulars not received)
- Hari Babu Fuke (1966 B. Tech. Electrical)**
(Particulars not received)
- Haridhasan T. M. (1964 M.Sc. Physics)**
Research Scholar, Department of Physics, Indian Institute of Science, Bangalore-12.
- Harihara Iyer N. (1964 M.Sc. Physics)**
Research Scholar, Department of Physics, Indian Institute of Technology, Madras-36.
- Hariharan V. D. (1966 B. Tech. Mechanical)**
Draughtsman, Avadi Tank Factory, Madras.
- Harinarayanan G. (1964 B. Tech. Metallurgy)**
Research Scholar, Department of Metallurgy, University of Washinton, Seattle, Washington, U.S.A.
- Harichandra Khara (1967 B. Tech. Mechanical)**
(Particulars not received)
- Harish Kumar Sethi (1967 B. Tech. Civil)**
Assistant Site Engineer, M/s. Uttam Singh Duggal, Delhi.
- Harish Kumar Wahi (1967 B. Tech. Civil)**
(Particulars not received)
- Harpal S. Shani (1967 B. Tech. Electrical)**
- Hetram Kunwar (1967 B. Tech. Civil)**
(Particulars not received)
- Inder Paul Singh (1967 B. Tech. Electrical)**
(Particulars not received)
- Inder Raj Bajaj (1965 B. Tech. Civil)**
Engineer, Bird & Co., Bokaro Steel Plant Limited, Bihar.
- Iswar Chandra (1965 B. Tech. Mechanical)**
Assistant Engineer, Process Engineering Division, Mining and Allied Machinery Corporation, Durgapur-10, West Bengal.
- Jacob V.C. (1967 B. Tech. Mechanical)**
Engineer-Trainee, Madras Rubber Factory, Madras-19.
- Jacob Dominic (1964 B. Tech. Electrical)**
Studying M.S. in the University of Washington, U.S.A.
- Jagabhandhu Maji (1965 M.Sc. Physics)**
Senior Technical Assistant, Department of Physics, I.I.T., Madras-36.
- Jagadish Chand Tanon (1967 B. Tech. Electrical)**
Studying M.S. in the University of Waterloo, Ontario, Canada.
- Jagadish Chandra Kalyan (1964 B. Tech. Mechanical)**
(Particulars not received)
- Jagannandha Rao D. (1967 B. Tech. Mechanical)**
- Jagannathan K. (1966 B. Tech. Metallurgy)**
Studying M.S. in the West Virginia University, U.S.A.
Address: Material Science Division, University of Virginia, Charlottesville, Virginia.
- Jagannathan P. (1967 B. Tech. Mechanical)**
Studying M.S. in the University of California, Berkeley, U.S.A.
Address: 6, 1528, Oxford Street, Berkeley, California, 94709, U.S.A.
- Jag Mohan Anand (1965 B. Tech. Chemical)**
Employed in M/s. Calico Mills as Management Trainee, Ahmedabad.
- Jain P.K. (1965 B. Tech. Mechanical)**
Employed in Hindustan Motors Limited, Calcutta.
Address: 115-B, Batala Lane, Kotrong, Bhadrakali, West Bengal.
- Janakiraman A. (1967 B. Tech. Chemical)**
Junior Executive Trainee (Chemical), Fertilizer Corporation of India Ltd., Sindhri, Bihar.
- Janakiraman K. (1967 B. Tech. Civil) (5-Year stream)**
Studying M. Tech. at I.I.T., Kanpur.
- Janakiraman K. (1967 B. Tech. Civil) (3-Year stream)**
Studying M. Tech. at I.I.T., Madras-36.
- Janakiraman S. (1966 B. Tech. Mechanical)**
Studying M.S. in the University of California, Berkely, U.S.A.
Address: 741, International House, University of California, Berkeley, 94721, U.S.A.
- Janardhanan E. (1966 B. Tech. Electrical)**
Electronics Engineer, Electronics Ground Group, TERLS, Trivandrum.
- Janardhanan Nair M. (1966 B. Tech. Metallurgy)**
Technical Assistant, Material Science Division, Space Science and Technology Centre, Trivandrum.
- Janardhanan S.N. (1966 M.Sc. Chemistry)**
Junior Lecturer in Chemistry, Sri Kerala Verma College, Trichur-2.
- Jasbinder Singh (1967 B. Tech. Civil)**
(Particulars not received)
- Jatinder Seghal (1967 B. Tech. Electrical)**
Studying M.S. in the University of Waterloo, Ontario, Canada.

- Jayagopal L.S. (1967 M. Tech. Civil)**
Lecturer, P.S.G. College, Coimbatore.
- Jayakumar R. (1967 B. Tech. Mechanical)**
Employed in Nigeria, Lagos.
- Jayaram A.R. (1964 B. Tech. Mechanical)**
Graduate Trainee, Enfield India Ltd., P.B.No. 5284,
Tiruvottiyur, Madras-19.
- Jayaraman N.V. (1967 B. Tech. Electrical)**
Undergoing Government of India Practical Training in the
Indian Overseas and Communication centre at Madras.
- Jayaraman V. (1965 M. Tech. Electrical)**
Probationary Assistant, Signal and Tele Communication
Engineer, Southern Railway, Madras-3.
- Jitendra Goswamy (1966 B. Tech. Chemical)**
Assistant Erection Engineer, P & D. Department, Fertilizer
Corporation of India Ltd., Namrup Division, Lukhimpur,
Assam.
- John V. X. (1967 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Madras.
- John Kuriyan M. (1967 B. Tech. Mechanical)**
Studying PGDIE at I.I.T., Madras-36.
- John Martin D. (1967 M. Tech. Civil)**
(Particulars not received)
- Joseph T.J. (1966 B. Tech. Electrical)**
Computer Programmer, L.R.D.E., Bangalore.
- Jose P. Thomas (1966 B. Tech. Electrical)**
Junior Engineer, Project Division, M/s. Larsen & Toubro
Ltd., Bombay.
- Joshi V.G. (1964 B. Tech. Civil)**
Employed in C.P.W.D Nagpur,
Address: C-5/2, Ravi Nagar, Nagpur.
- Jothi Shankar (1965 M. Tech. Civil)**
Research Scholar, Department of Civil Engineering, Indian
Institute of Science, Bangalore.
- Jytendra Swarp (1967 B. Tech. Civil)**
Engineer-Trainee, Triveni Structurals Ltd., Naini,
Allahabad.
- Kabilan R. (1967 B. Tech. Mechanical)**
Plant Manager, M/s. Aerosol (Nigeria) Ltd., Nigeria, Lagos.
- Kalakamurthy P. (1967 B. Tech. Mechanical)**
- Kalpakam S. (1967 M.Sc. Mathematics)**
Research Scholar, Department of Mathematics, I.I.T.,
Madras-36.
- Kalyanakrishnan R. (1967 B. Tech. Electrical)**
Studying M.S. in the Yale University.
Address: 301, Prospect Street, New Haven, Connecticut,
06511, U.S.A.
- Kamalesh Kumar Singh (1966 B. Tech. Mechanical)**
(Particulars not received).
- Kameswara Rao P. (1965 B. Tech. Chemical)**
Studying M.S. in the University of Waterloo, Waterloo,
Ontario, Canada.
- Kanakaraju K. (1967 M.Sc. Mathematics)**
Research Scholar, Indian Institute of Science, Bangalore.
- Kannan K.R. (1967 B. Tech. Metallurgy)**
Studying M.E. Course at the Indian Institute of Science,
Bangalore.
- Kannan N. (1965 B. Tech. Electrical)**
Engineer, Mulchandani Radio and Electrical Industries,
Wagle Industrial Estate, Thana, Bombay.
- Kannan T. (1967 B. Tech. Electrical)**
Studying M. Tech. at I.I.T., Bombay.
- Kanwal Kishan Dutt (1964 B. Tech. Civil)**
Military Engineer, Dehra Dun.
Address: 873, Engineer Works Section, C/o. 56 APO.
- Kanwal Kumar Talwar (1966 B. Tech. Electrical)**
Completed his Management Course in I.I.M., Ahmedabad
and employed in Canada.
Address: Apt. 2, 431, Gilmoor Street, Ottawa-4, Ontario,
Canada.
- Kapil Deo Rai (1967 B. Tech. Mechanical)**
- Kapil Virmani (1967 B. Tech. Mechanical)**
Studying M.S. in the Illinois Institute of Technology,
Chicago, Illinois, U.S.A.
- Karuppan Chetty N. (1967 PGDIE)**
Executive Engineer, Neyveli Lignite Corporation, Neyveli,
Madras State.
- Katiyar J.B.S. (1965 B. Tech. Electrical)**
Electrical Engineer (Testing), Indian Traders Private Ltd.,
New Delhi-15.
- Kaveriappa B.C. (1965 M. Tech. Mechanical)**
Wetter/Ruhr, Bismarckstrasse-32, West Germany.
- Kedarnath Nayak (1965 B. Tech. Electrical)**
Lecturer, Faculty of Electrical Engineering, Regional
Institute of Technology, Jamshedpur.
- Kellogg S.P. (1966 M. Tech. Mechanical)**
Lecturer, Department of Mechanical Engineering, Engineer-
ing College, Ahmedabad-5.
- Kesari B.N. (1966 B. Tech. Civil)**
Studying M.E. at the Indian Institute of Science, Bangalore.
- Khandelwal C.S. (1966 B. Tech. Mechanical)**
(Particulars not received)
- Kishore T. (1966 B. Tech. Mechanical)**
(Particulars not received).
- Koteeswaran V. (1964 B. Tech. Civil)**
Design Engineer, M/s. C. J. Pell & Partners, London.
- Kotandaraman A.T. (1967 B. Tech. Civil)**
Section Officer, C.P.W.D., Delhi.
- Koshy Varghese (1967 PGDIE)**
Industrial Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Kripanarayanan K.M. (1965 B. Tech. Civil)**
(Particulars not received).
- Kripapuri G. (1966 B. Tech. Chemical)**
Apprentice Officer, M/s. Seshasayee Industries Ltd.,
Vadalur, South Arcot District.
- Krishna C. (1966 B. Tech. Mechanical)**
(Particulars not received).
- Krishnadas Nayar C.G. (1964 B. Tech. Metallurgy—M.S.)**
Research Student, University of Saskatchewan, Saskatoon,
Canada.
- Krishna Gopal (1966 B. Tech. Electrical)**
Associate Lecturer, Electrical Engineering Department,
Regional Engineering College, Kurishetra, Haryana.

- Krishna Kant (1967 B. Tech. Civil)**
Assistant Engineer, Design Department, Hindustan Housing
Factory Ltd., Jungpura, New Delhi-14.
- Krishna Kumar (1965 B. Tech. Electrical)**
(Particulars not received).
- Krishna Kumar P.K. (1965 B. Tech. Civil—M.S.)**
Engineer, Advanced Computer Systems Inc. 2032 Centenary,
West Los Angeles, California, 90025, U.S.A.
- Krishna Mohan P. (1967 B. Tech. Chem. cal)**
Studying M.S. at the University of Mississippi, U.S.A.
Address: P.B. No. 7382, University of Mississippi, Mississippi,
38677, U.S.A.
- Krishnamachary M. (1966 B. Tech. Mechanical)**
Military Engineer, Dehra Dun.
- Krishnamohan Rao Y. (1966 B. Tech. Chemical)**
After completing his course in the Indian Institute of
Petroleum, Dehra Dun he joined as Production Trainee, in
M/s. Polyolefins Industries Ltd., Bombay.
- Krishnan K.R. (1966 B. Tech. Electrical)**
Custom Engineer, I.B.M. World Trade Corporation,
Bombay
Address: C/o. Mr. M. R. Natarajan, Reservoir Bungalow,
Gibbs Rod, Malabhar Hills, Bombay-6.
- Krishnan M. (1966 B. Tech. Mechanical)**
Senior Research Assistant, Department of Mechanical
Engineering, I.I.T., Kanpur.
- Krishnan M.V. (1967 M.Sc. Physics)**
Research Scholar, Department of Physics, I.I.T., Kanpur.
- Krishnan N. (1966 B. Tech. Civil)**
Studying M.S. in the Carnegie University, U.S.A.
- Krishnan R. (1966 B. Tech. Electrical)**
Engineer, M/s. Jyoti Limited, Mount Road, Madras-2.
- Krishnan R. (1966 B. Tech. Electrical)**
Studying M. Tech. (Electrical) at I.I.T., Madras-36.
- Krishnan R. (1966 M.Sc. Mathematics)**
Studying Diploma in Computer Science Course, Indian
Statistical Institute, Calcutta-35.
- Krishnan S.M. (1966 B. Tech. Mechanical)**
Studying M. Tech. at I.I.T. at Madras.
- Krishnan V. (1967 B. Tech. Metallurgy)**
(Particulars not received)
- Krishnamurthy A. (1967 M.Sc. Mathematics)**
Probationary Engineer, Indian Overseas Bank Ltd., P.B.
No. 39, Biz Bazaar Street, Coimbatore-1.
- Krishnamurthy A.K. (1965 M. Tech. Chemical)**
Engineer, M/s. Chemicals and Plastics Private Ltd., Dhun
Buildings, Mount Road, Madras.
- Krishnamurthy G. (1965 B. Tech. Physics)**
Studying M.E. (Chemical Engineering) Jadavpur Univer-
sity, Calcutta.
- Krishnamurthy G. (1966 M. Sc. Physics)**
Lecturer, Bangalore Medical College, Bangalore.
- Krishnamurthy G. M. (1966 B. Tech. Metallurgy)**
Research Investigator, Metallurgy Section, Research and
Development Laboratory, M/s. International Nickal Ltd.,
Wiggen Street, Birmingham-16, England.
- Krishnamurthy K. S. (1965 B. Tech. Electrical)**
Research Assistant, Department of Physiology, at the King's
College, London.
- Krishnamurthy M. (1966 M. Tech. Electrical)**
Lecturer, Department of Electrical Engineering, I.I.T.,
Madras.
- Krishnamurthy M. (1966 B. Tech. Metallurgy)**
Studying M.E. at the Indian Institute of Science, Bangalore.
- Krishnamurthy M. V. (1964 B. Tech. Mechanical)**
Research Scholar, Department of Mechanical Engineering,
Indian Institute of Science, Bangalore.
- Krishnamurthy P. S. (1964 B. Tech. Chemical)**
Project Engineer, Shawinigan Chemicals Ltd. Varennes—
Que—Canada.
- Krishnamurthy S. (1965 M. Tech. Electrical)**
Assistant Manager, (O.P) Ordinance Factory, Khamria,
Jabalpur.
- Krishnamurthy S. (1966 B. Tech. Electrical)**
Assistant Electrical Engineer, Special Project Team, Bharat
Electronics Ltd., Bangalore.
- Krishnamurthy T.V.G. (1966 B. Tech. Electrical)**
(Particulars not received)
- Krishna Rao M. V. (1966 B. Tech. Mechanical)**
Engineer, M/s. Union Carbide Indian Ltd., Calcutta.
- Krishnaraj N. (1967 B. Tech. Met.)**
Engineering Apprentice, M/s. LUCAS-TVS Ltd., Padi,
Madras.
- Krishnaswamy R. (1966 B. Tech. Mechanical)**
Assistant Manager, The Directorate General Ordinance
Factories, Calcutta.
- Kumar S. (1965 B. Tech. Civil)**
Student of M.E., Birla Institute of Technology, Pilani,
Rajasthan
- Kumarappan C.T. (1964 B. Tech. Civil)**
Engineer, M/s. Prestressed Concrete Co. (P) Ltd., Gagan
Mahal Colony, Domalguda, Hyderabad-29.
- Kuruville G.K. (1967 B. Tech. Chemical)**
(Particulars not received)
- Kuruville Thomas (1965 B. Tech. Chemical)**
Studying 2nd M. Tech. at I.I.T., Madras-36.
- Lakshminarasimhan G. (1964 B. Tech. Mechanical)**
Junior Scientific Officer, Defence Research and Develop-
ment Organisation, Phisalpanda P.O. Yakutpura,
Hyderabad-23.
- Lakshminarasimhan J. (1967 B. Tech. Mechanical)**
(Particulars not received)
- Lakshminarasimhan R. (1964 M. Sc. Physics M. Tech.)**
Lecturer, Department of Metallurgy, Sardar Patel College
of Engineering, Andheri West, Bombay-58.
- Lakshminarasimhan T. R. (1965 M. Tech. Chemical)**
Studying in East Germany.
Address: Internat VI/121, Geusaer Str, 42, Merseburg,
East Germany (G.D.R.)
- Lakshminarayanan B. (1964 B. Tech. Metallurgy)**
Engineer, M/s. J. K. Steel Limited, Calcutta.
- Lalit Mohan Tewari (1966 B. Tech. Chemical)**
(Particulars not received)
- Lawrence Amal Raj S.B. (1965 B. Tech. Electrical)**
(Particulars not received)

- Lionel Paul (1966 B. Tech. Mechanical)**
Management Trainee, M/s. India Pistons Ltd., Madras-11.
- Lobo P. F. (1967 B. Tech. Chemical)**
- Loomba R.P. (1966 B. Tech. Chemical)**
Gone to U.K. for further studies.
Address: 13, Kedleston Avenue, Victoria Park, Manchester-14.
- Madhava Sampigethaya (1964 B. Tech. Civil)**
(Particulars not received)
- Madhavan K. (1967 B. Tech. Electrical)**
Studying M.E. at the Roorkee Engineering College Roorkee, U.P.
- Madhavan Nair R. (1966 B. Tech. Electrical)**
Pilot Officer, Indian Air Force, Air Force Training College, Jalahalli, Bangalore-13.
- Madhok R.G. (1965 B. Tech. Electrical)**
Extra Assistant Director, Central Water and Power Commission (Power Wing), F.E. Division, Bikaneer House, Shajahan Road, New Delhi.
- Madhusudan Menon B. (1966 B. Tech. Mechanical)**
Design Engineer, M/s. American Refrigerator Company, Bombay.
- Madhusudan D. (1967 M.Sc. Physics)**
(Particulars not received)
- Madhusudan Murthy (1967 PGDIE)**
Assistant Engineer (Work Study), Bharat Electronics Ltd., Bangalore.
- Mahadevan C.S. (1965 B. Tech. Electrical)**
Graduate Engineer, Air India, Santa Cruz, Bombay-29.
- Mahadevan K. (1965 B. Tech. Electrical)**
Electrical Shop Master, Technical School, Addis Ababa, Ethiopia, East Africa.
- Mahadevan R. (1964 B. Tech. Mechanical)**
Assistant Engineer, M/s. India Pistons Ltd., Madras-11.
- Mahamed Hussain Iqbal Khan (1966 B. Tech. Metallurgy)**
Studying M.S. in the University of Arizona, U.S.A.
Address: Apt 8, 841, N. Tyndall Avenue, Tucson, Arizona, 85719, U.S.A.
- Mahapatra G. C. (1966 B. Tech. Metallurgy)**
Graduate Engineer, Hindustan Steel Ltd., Rourkela.
- Mahapatra K.C. (1967 B. Tech. Electrical)**
(Particulars not received)
- Mahendra Prasad (1966 B. Tech. Electrical)**
Sales Engineer, M/s. Toshniwal Bros. Private Ltd., New Delhi.
- Mahendra Prasad Srivatsava (1967 B. Tech. Electrical)**
Assistant Engineer, U.P. State Electricity Board, Gorakhpur.
- Mahesh K. (1965 B. Tech. Metallurgy)**
Employed in U.K.
- Mahesh Kumar Aggarwal (1966 B. Tech. Mechanical)**
Graduate Apprentice, Bharat Heavy Electricals Ltd., Rani-
pur, Hardwar—U.P.
- Mahesh Kumar Suri (1964 B. Tech. Mechanical)**
Engineer, M/s. Indian Oil Corporation, Rambagh, Allahabad-3.
- Mahima Chandra Gangwar (1966 B. Tech. Electrical)**
Technical Graduate Cadet, Indian Military Academy, Dehra Dun.
- Malleswara Rao A. (1967 PGDIE)**
Employed in M/s. Sarabai Group Services, Ahmedabad.
- Mallikarjuna Rao K.C. (1965 B. Tech. Electrical)**
Assistant Engineer, Central Railway, 1 Forbes Street, Fort, Bombay-1.
- Mallikarjuna Rao S. (1967 B. Tech. Chemical)**
Trainee, Bhabha Atomic Energy Establishment, Trombay, Bombay.
- Mallikarjunudu V. (1967 B. Tech. Civil)**
(Particulars not received)
- Mani N. (1966 B. Tech. Mechanical)**
Studying in the University of Calgary, Alberta, Canada.
- Mani R.V.S. (1965 B. Tech. Chemical M.S.)**
Engineer, M/s. Stauffer Chemical Co., Richmond, California, U.S.A.
- Manickavasagam R. (1965 M. Tech. Electrical)**
Control and Guidance Systems Engineer, Rocket Research and Development Group, Terls, P.B. No. 35, Trivandrum-1.
- Manish Chandra Uttam (1964 B. Tech. Chemical)**
Engineer, Rocket Propellant Section, Atomic Energy Establishment, Hall No. 6, Trombay, Bombay-74.
- Man Mohan Gupta (1965 B. Tech. Mechanical)**
(Particulars not received)
- Man Mohan Kubba (1967 B. Tech. Chemical)**
Junior Executive Trainee (Chemical), Fertilizer Corporation of India Ltd., Sindri, Bihar.
- Man Mohan Lal (1964 B. Tech. Mechanical)**
(Particulars not received)
- Manoj Kumar Wangu (1967 B. Tech. Mechanical)**
Employed in the Multipurpose Project, Simla.
- Mansumare P.G. (1965 B. Tech. Metallurgy)**
Junior Scientific Officer, Defence Research and Development Organisation, Defence Metallurgical Laboratory, Phisalbanda P O. Yakutpura, Hyderabad-13.
- Masilamani S. (1967 B. Tech. Electrical)**
- Mathew K.I. (1967 PGDIE)**
Engineer, Premier Automobiles Ltd., Bombay.
- Mathrubootham K. (1966 B. Tech. Metallurgy)**
(Particulars not received)
- Milind Palekar (1967 B. Tech. Mechanical)**
Junior Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Misra V. V. (1967 B. Tech. Electrical)**
Studying M. Tech. at I.I.T., Bombay.
- Mohan H.C. (1967 B. Tech. Civil)**
(Particulars not received)
- Mohan P. (1964 B. Tech. Civil)**
(Particulars not received)
- Mohan Krishna Muju (1964 B. Tech. Mechanical),**
Lecturer, Department of Mechanical Engineering, I.I.T., Kanpur.
- Mooliyil Bhaskaran (1964 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Madras.
- Mothiram Patil K. (1965 B. Tech. Mechanical)**
Studying M.E. in the Indian Institute of Science, Bangalore.

- Mrigender Sud (1967 B. Tech. Mechanical)**
Apprentice Mechanical Engineer, Shree Gopal Paper Mills Ltd., Yamunanagar, Ambala Dt., Haryana.
- Mudholkar L.D. (1965 B. Tech. Civil)**
Section Officer, P.W.D., Madhya Pradesh Government, at Jabalpur.
- Murali N. (1964 B. Tech. Metallurgy)**
Assistant Lecturer, Regional Engineering College, Warrangal.
- Muralidhara Rao M. (1967 B. Tech. Mechanical)**
(Particulars not received)
- Murali Mohan S. (1966 M. Tech. Chemical)**
Chemical Engineer, M/s. Calico Mills, Bombay.
Address: 2/254, Station Road, Wadala, Bombay-31 (DD)
- Murthy K.V.R. (1967 B. Tech. Electrical)**
Research Assistant (Electronics), Electronics & Instrumentation Laboratory, Research & Development Division, Tisco, Jamshedpur.
- Muthukrishnan C.R. (1965 B. Tech. Electrical)**
Doing his Ph.D. at I.I.T., Kanpur.
Research Scholar, Department of Electrical Engineer, I.I.T., Kanpur.
- Muthukrishnan S.M. (1967 M. Tech. Chemical)**
(Particulars not received)
- Muthukrishniah K. (1965 M. Tech. Civil)**
Associate Lecturer, Department of Civil Engineering, I.I.T., Madras-36.
- Muthuraman B. (1966 B. Tech. Metallurgy)**
Graduate Apprentice, Tisco, Jamshedpur.
- Muthurajan R. (1966 B. Tech. Civil)**
Junior Engineer, Public Health Department, Government of Madras, Madras-5.
- Muthyalu (1967 M.Sc. Mathematics)**
Research Scholar, Department of Mathematics, I.I.T., Madras-36.
- Nagabhushanam B. (1964 M.Sc. Mathematics)**
(Particulars not received)
- Nagarajan T.K. (1966 B. Tech. Mechanical)**
Industrial Engineering Apprentice, M/s Unicorn Ltd., Madras.
- Nagendar S. (1966 B. Tech. Mechanical)**
Graduate Engineer, M/s. Siemens Engineering Ltd., Bombay.
- Nageswar Prasad Rama (1966 B. Tech. Metallurgy)**
Managing Director, M/s Rama Engineering Manufacturing Co., Raniganj Road, Forbesgunj (Purnea) Bihar.
- Nand Kishore Todi (1967 B. Tech. Mechanical)**
Engineer, M/s. Orient General Industries, Calcutta.
- Nanda Kumar R. Dave (1965 B. Tech. Civil)**
Engineering Contractor.
Address: 40, Nainiappa Maistry Street, 2nd Floor, Madras-3.
- Nanda Kumar Rao V. (1964 B. Tech. Electrical)**
Engineer, M/s. Voltas Limited, Bombay.
- Narasimha Acharya B. (1965 B. Tech. Metallurgy)**
Studying M.E. at the Indian Institute of Science, Bangalore.
- Narasimhan A. (1965 M.Sc. Physics)**
(Particulars not received)
- Narasimhan S.L. (1967 B. Tech. Metallurgy)**
Senior Technical Assistant, Department of Metallurgy, I.I.T., Madras-36.
- Narayanan K. (1965 B. Tech. Chemical)**
Graduate Engineer Indian Oil Corporation Ltd., Refinery Division, Noonmathi, Gauhati, Assam.
- Narayanan K. (1966 B. Tech. Electrical)**
M. Tech. Student Department of Electrical Engineering, I.I.T., Bombay.
- Narayanan M.V. (1964 B. Tech. Mechanical)**
Engineer, M/s. Voltas Ltd., Bombay.
- Narayanan P.S.A. (1967 B. Tech. Metallurgy)**
Trainee, Bhabha Atomic Research Centre, Trombay, Bombay.
- Narayanan Kutty Menon M. (1965 B. Tech. Metallurgy)**
(Particulars not received)
- Narayana Rao M. (1966 B. Tech. Mechanical)**
Technical Teacher Trainee, Department of Mechanical Engineering, College of Engineering, Guindy, Madras-25.
- Narayana Rao V. (1965 B. Tech. Mechanical)**
Trainee Engineer, M/s. Steel and Allied Products Ltd., Calcutta.
- Narayana Rao V. (1965 M. Tech. Chemical)**
Research Scholar, Department of Chemical Engineering, I.I.T., Madras-36.
- Narayanawamy R. (1966 M. Tech. Civil)**
Lecturer, Trichur Engineering College, Trichur, Kerala.
- Narendra Kumar Sharma (1966 B. Tech. Electrical)**
Assistant Engineer, Panki Power Station, P. B. No. 382, Kanpur (U.P.)
- Naresh Puri (1967 B. Tech. Electrical)**
Studying M.S. at the State University of New York, at Stony Brook, Stony Brook, New York, U.S.A.
- Naresh Sharma (1965 B. Tech. Electrical)**
Studying M.S. in the Department of Electrical Engineering, University of Toronto, Toronto, Canada.
- Narindranath Chitkara (1967 B. Tech. Chemical)**
Technical Sales Officer, M/s. Rockweld Electrodes Industries, Madras-58.
- Natarajan K.V. (1966 B. Tech. Civil)**
Completed his M. Tech. course in Indian Institute of Technology, Madras.
- Natarajan M. (1967 B. Tech. Mechanical)**
Engineer, M/s. Escorts Ltd., Patiala, Punjab.
- Natarajan R. (1964 B. Tech. Metallurgy)**
Assistant Metallurgist, Research and Control Laboratory, Rourkela Steel Plant (HSL), Rourkela-1.
- Natarajan Sundaram (1965 B. Tech. Electrical)**
Sales Engineer, ION Exchange India Ltd., TIECICON House, Mahalakshmi, Bombay-11.
- Natesan S. (1966 B. Tech. Metallurgy)**
Graduate Apprentice, M/s. Shardo Forging, Sembiam, Madras-11.
- Navneeth Krishnan P.V. (1964 M.Sc. Mathematics)**
Lecturer, Department of Mathematics, College of Engineering, Guindy, Madras-25.

- Neelakanthan K. (1966 M. Tech. Chemical)
Engineer, Chemical Section, M/s. Union Carbide India Ltd., Calcutta-1.
- Neelakantan K. (1966 M.Sc. Physics)
Completed his M. Tech at I.I.T., Delhi.
- Neelakantan N.Z. (1967 M. Tech. Chemical)
(1965 B. Tech. Chemical)
Research Scholar, Department of Chemical Engineering, I.I.T., Bombay.
- Neelamegham Z. (1967 B. Tech. Chemical)
Studying M.S. in the University of Waterloo, Ontario, Canada.
- Nilabja Sen (1966 B. Tech. Civil)
(Particulars not received)
- Niranjana Reddy P. (1966 B. Tech. Electrical)
Completed his M. Tech. Course at I.I.T., Madras-36.
- Nokey Lal (1967 PGDIE)
Assistant Engineer, U.P. Electricity Board, Lucknow.
- Om Prakash Bhatia (1966 B. Tech. Mechanical)
Graduate Engineer, M/s. Fedder's Lloyd Corporation Ltd., New Delhi-1.
- Padmanabhan G. (1965 B. Tech. Mechanical)
Graduate Apprentice, Hindustan Steel Ltd., Durgapur.
- Padmanabhan G.R. (1965 M.Sc. Physics)
Completed his M. Tech. course at I.I.T., Delhi.
- Padmanabhan K. (1966 B. Tech. Electrical)
Assistant Engineer, Research Department, Indian Telephone Industries Ltd., Bangalore-16.
- Padmanabhan L. (1966 B. Tech. Chemical)
Studying M.S. in the University of Pittsburgh, U.S.A.
Address: 3200, Forbes Avenue. Apartment-1, Pittsburgh, Pa 15213, U.S.A.
- Padmanabhan M. (1966 M. Tech. Civil)
Lecturer in Civil Engineering, Engineering College, Trivandrum-16.
- Padmanabhan T.V. (1967 B. Tech. Civil)
Site Engineer, M/s. Engineering Construction Corporation of India Ltd., Mount Road, Madras.
- Padmanabhan V. (1966 B. Tech. Electrical)
Completed his M.E. Course at I.I. Sc., Bangalore.
- Pahouja R.C. (1965 B. Tech. Electrical)
Technical Assistant, Bhilai Steel Plant, Bhilai, 4J/35/VI, Bhilai.
- Panda S.C. (1967 M. Tech. Chemical)
(Particulars not received)
- Panduranga Prabhu N. (1967 B. Tech. Metallurgy)
Studying M.S. at the University of Pittsburg, U.S.A.
Address: 357 Atwood Street, Pittsburg, Pa 15213, U.S.A.
- Pandya Jayant Kumar (1965 B. Tech. Civil)
Completed his I.I.M. Course at Calcutta.
- Panke H.L. (1965 M. Tech. Electrical)
Engineer, Testing Department, Tata Power Company, Carnae Receiving Station, Bombay-29.
- Paretkar N.K. (1964 B. Tech. Civil)
Assistant Engineer (Civil) Civil Division, M.P.E.B. Jabalpur.
- Parthasarathy R. (1967 M.Sc. Physics)
Research Scholar, Tata Institute of Fundamental Research, Colabomb, Bombay.
- Parthasarathy R. (1967 PGDIE)
Industrial Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Pasupathy S. (1965 M. Tech. Electrical)
(Particulars not received)
- Pattabiraman J. (1967 B. Tech. Mechanical)
Studying M. Tech. 2nd Year at I.I.T., Madras.
- Pattabiraman T.S. (1966 B. Tech. Mechanical)
Studying M.E. at the I.I. Sc., Bangalore.
- Paul Ratnam N. (1965 B. Tech. Mechanical)
(Particulars not received)
- Pawan Kumar Bansil (1967 B. Tech. Chemical)
- Pereira Aloysius M. (1966 B. Tech. Mechanical)
Graduate Trainee, TELCO, Jamshedpur.
- Philip Dhinakaran G. (1966 B. Tech. Mechanical)
Junior Engineer, M/s. Larsen and Toubro Ltd., Calcutta.
- Poornanjaneya Sastry P. (1966 B. Tech. Civil)
Completed his M. Tech. course at I.I.T., Kanpur.
- Prabhakar H.D. (1966 M. Sc. Physics)
Lecture in Physics, Government College of Pharmacy, Bangalore.
- Prabhakar O. (1965 B. Tech. Metallurgy)
Associate Lecturer, Department of Metallurgy, I.I.T., Madras-36.
- Prabhakar P.D. (1965 B. Tech. Mechanical)
Engineer, TELCO, Jamshedpur.
- Prabhakaran P.K. (1966 M. Tech. Civil) (1964 B. Tech. Civil)
Engineer, M/s. Engineering Construction Corporation of India Ltd., Mount Road, Madras-2.
- Prabhakar P.K. (1966 B. Tech. Civil)
Pursuing higher studies in the University of Cincinnati, Cincinnati, Ohio, U.S.A.
- Prabhakaran R. (1965 B. Tech. Mechanical)
Pursuing his higher studies in the Illinois Institute of Technology, U.S.A.
Address: Mail Box 481, 71, East 32nd Street, Illinois Institute of Technology, Chicago, Illinois 60616—U.S.A.
- Prabhakara Rao G.V. (1966 M.Sc. Mathematics)
Research Scholar, Department of Mathematics, I.I.T., Madras-36.
- Prabhat Andleigh (1967 B. Tech. Electrical)
- Prabhudas Gurnani (1965 B. Tech. Mechanical)
Graduate Trainee, M/s. American Refrigerator Co. Ltd., A—Shed, Hide Road, Kidderpore, Calcutta-13.
- Pradeep Chandra Gupta (1964 B. Tech. Electrical)
(Particulars not received)
- Pradeep Dattayara Khedkar (1967 B. Tech. Chemical)
- Pradeep Mallick (1965 B. Tech. Electrical)
Sales Engineer, M/s. Crompton Greaves Ltd., Bombay-1.
- Prakash A.K. (1967 B. Tech. Electrical)
Pilot Officer, Air Force Training College, Jalahalli, Bangalore.

- Prasad V.B. (1966 B. Tech. Electrical)**
Assistant Engineer, Richard Power House, Pipri, Turra,
U.P.
- Prasad V.L. (1964 B. Tech. Electrical)**
Physical Research Laboratory, Navaranpura, Ahmedabad-9.
- Prasanna Kumar Goswamy (1965 B. Tech. Civil)**
(Particulars not received)
- Prasanna Kumar Samal (1966 B. Tech. Metallurgy)**
Graduate Research Assistant, Mechanical Engineering
Department, University of Maryland, College Park,
U.S.A.
- Pravash Chandra Ghosa (1967 B. Tech. Mechanical)**
- Premanda Prabhu (1964 B. Tech. Mechanical)**
(Particulars not received)
- Premananda Shet (1967 B. Tech. Mechanical)**
Technical Teacher Trainee, Department of Mechanical
Engineering, I.I.T., Madras-36.
- Prembabu P.C. (1966 B. Tech. Electrical)**
(Particulars not received)
- Prem Bhusan Gupta (1967 B. Tech. Mechanical)**
Joined in the Military Service at Dehra Dun.
- Prem Chandra (1965 B. Tech. Mechanical)**
Apprentice Engineer, M/s. Zenith Steel Pipes Limited,
Khapoli, Colaba District, Maharashtra.
- Prem Kumar Varma (1966 B. Tech. Civil)**
Section Officer, (Civil), Architect Section, Engineering
Unit, All India Institute of Medical Sciences, New
Delhi-16.
- Premnath Bhaskaran (1965 B. Tech. Mechanical)**
Graduate Trainee, Tool Room Section MICO Products,
Bangalore.
- Pritam Lal Kapur (1965 B. Tech. Mechanical)**
Assistant Factory Engineer, M/s. Hindustan Lever Limited,
Etah Dairy, Etah, U.P.
- Prithiviraj Gogna (1967 B. Tech. Mechanical)**
Sales Engineer, Sales Department, M/s. Sarabai Chemicals,
Calico Mills, Ahmedabad.
- Probat Kumar Purkait (1966 B. Tech. Electrical)**
- Promod Kumar Goswamy (1967 B. Tech. Mechanical)**
Engineer, M/s. Kumaradhubi Fireclay Sillica Works Limi-
ted, Kumaradhubi, Dhanbad District, Bihar.
- Pukhraj Jain (1965 B. Tech. Metallurgy)**
Pursuing higher studies in the University of Illinois,
Urbanad, U.S.A.
- Purna Chandra Majhee (1966 B. Tech. Electrical)**
Associate Lecturer, Department of Electrical Engineering,
I.I.T., Madras-36.
- Rabindra Kumar Mohanty (1966 B. Tech. Metallurgy)**
Graduate Apprentice, Rourkela Steel Plant, Rourkela.
- Radhakrishnan A.C. (1965 M. Tech. Civil)**
Associate Lecturer, Department of Civil Engineering, I.I.T.,
Madras
- Radhakrishnan P. (1965 M. Sc. Physics)**
(Particulars not received)
- Radhakrishnan P.V. (1964 B. Tech. Electrical)**
Electrical Engineer, Andhra Pradesh Paper Mills, Raja-
mundry.
- Radhakrishnan S. (1966 B. Tech. Civil)**
Senior Technical Assistant, Department of Applied Mecha-
nics, I.I.T., Madras.
- Radhakrishna Rao K. (1966 B. Tech. Electrical)**
Completed his M. Tech. Course at I.I.T., Kanpur.
- Radhakrishna Rao B.N. (1967 B. Tech. Mechanical)**
Engineer, M/s. Canara Foundry and Equipment Corpora-
tion, Maroli, Mangalore-5
- Raghavan P. (1967 B. Tech. Electrical)**
Pursuing higher studies in the Monatana State University,
U.S.A.
- Raghavendra Rao N. (1965 M. Tech. Chemical)**
Pursuing his higher studies in the University of Cincinnati,
U.S.A.
Address: 225-Bosley Street, Cincinnati, Ohio, 45219, U.S.A.
- Raghunadha Rao S. (1967 B. Tech. Chemical)**
Research Scholar, Department of Chemical Engineering,
I.I.T., Madras-36.
- Raghunath Sahoo (1966 B. Tech. Electrical)**
Electrical Oversea, Orissa State Electricity Board
- Raghunathan S.K. (1967 B. Tech. Civil)**
Joined the Military Service at Dehra Dun.
- Raghunathan T.K. (1967 B. Tech. Mechanical)**
Graduate Engineer in M/s. Hindustan Aeronautics Ltd.,
Bangalore.
- Raghuram A.C. (1964 B. Tech. Metallurgy)**
Research Scholar, Metallurgy Division of Engineering,
Brown University, U.S.A.
- Raghuram P. (1966 B. Tech. Mechanical)**
Completed his M. Tech. Course at I.I.T., Kanpur.
- Raghuram Naidu S. (1966 B. Tech. Electrical)**
Apprentice, M/s. Crompton Engineering Co.
Ltd., Madras.
- Raghuraman v. (1967 PGDIE)**
Industrial Engineer, M/s. Sarabhai Group Servises (Textile
Division), Ahmedabad.
- Rajagopal R. (1965 M. Tech. Mechanical)**
Engineer, Hindustan Ferodo Ltd., Bombay.
- Rajagopal S. (1966 B. Tech. Civil)**
Completed his M. Tech. Course at I.I.T., Madras-36.
- Rajagopalan R. (1967 B. Tech. Metallurgy)**
Foundry Assistant, M/s. Binny Engineering Works, Meenam-
bakkam, Madras-61.
- Rajagopalan S.P. (1967 M.Sc. Mathematics)**
(Particulars not received)
- Rajamani R. (1966 B. Tech. Chemical)**
Apprentice Engineer, M/s. Shaw Wallace and Co. Ltd.,
Calcutta.
- Rajan R.D. (1967 M. Sc. Physics)**
Lecturer, Dr. G. V. Pope's College, Sawerpuram, Tirunel-
veli District.
- Rajan Y.S. (1965 M. Tech. Electrical)**
(Particulars not received)
- Raja Rao P. (1967 B. Tech. Mechanical)**
Apprentice for Assistant Engineer, Bharat Electronics,
Bangalore.

- Rajaráman A. (1965 M. Tech. Civil)
Research Scholar, Department of Civil Engineering, Indian Institute of Science, Bangalore-12.
- Rajaraman K. (1966 B. Tech. Electrical)
(Particulars not received)
- Rajeswara Rao Ch. S. (1964 B. Tech. Electrical)
(Particulars not received)
- Rajkumar (1966 B. Tech. Metallurgy)
Graduate Apprentice, Hindustan Steel Ltd., Rourkela.
- Rajkumar Khare (1967 B. Tech. Electrical)
(Particulars not received)
- Rajínder Prasad Kaushik (1965 B. Tech. Metallurgy)
Executive Trainee, M/s. Hindustan Motors Ltd., Uttarpara, West Bengal.
- Rajínder Singh Duggal (1967 B. Tech. Electrical)
(Particulars not received)
- Ramachandra Agawal (1967 PGDIE)
Industrial Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Ramachandra K. (1964 B. Tech. Civil)
Employment in Cementation Co. Ltd., Bombay.
- Ramachandra K. (1965 M. Tech. Civil)
Engineer (Drilling and Granting), Radio Hazarat Company, Obra Dam Site, Obra, Mirzapur, U.P.
- Ramachandran B.R. (1967 M. Sc. Chemistry)
Join M.S. Course at Unit of Mc Master Hamilton Ontario Canada in Sep. 68.
- Ramachandran E.V. (1966 M. Sc. Chemistry)
Assistant Professor, Chemistry Department, Government Arts College, Coimbatore.
- Ramachandran K. (1965 B. Tech. Mechanical), M.S. (Texas)
Trainee, M/s. Western Electric Co., Princeton, New Jersey, U.S.A.
- Ramachandran R. (1964 B. Tech. Electrical-M.S.)
Research Scholar, University of California, Berkeley, California, U.S.A.
- Ramachandran R. (1966 B. Tech. Metallurgy)
Trainee, Bhabha Atomic Research Centre, Bombay-50.
- Ramachandra Pai B. (1965 B. Tech. Mechanical)
Studying Post Graduate Course in Imperial College of Technology, London.
Address: 28, St. Dunstan's Road, London W. 6.
- Ramachandra Rao V. (1966 M. Tech. Electrical)
(Particulars not received).
- Ram Dayal Yadav (1967 B. Tech. Civil)
(Particulars not received).
- Rama Jogeswara Sarma (1964 B. Tech. Electrical)
Junior Engineer (Electrical), Maintenance Sub-Division of E.E. General Office, Hyderabad.
- Rama Sanker Singh (1964 B. Tech. Civil)
Assistant Engineer, P.W.D., U.P.
- Rama Mohana Rao J. (1967 B. Tech. Civil)
(Particulars not received).
- Ramakrishna Shettigar (1966 B. Tech. Chemical)
Studying M.E. in the Indian Institute of Science, Bangalore-12.
- Ramakrishnan S. (1966 B. Tech. Mechanical)
Graduate Apprentice, Atomic Energy Establishment, Trombay, Bombay.
- Ramakrishnan S. (1967 B. Tech. Mechanical)
Studying Post-Graduate Course in Industrial Engineering at I.I.T., Madras.
- Ramakrishnan S.S. (1966 B. Tech. Metallurgy)
Studying M. Tech. at I.I.T., Kanpur.
- Ramakrishnan T.K. (1965 B. Tech. Mechanical)
Pursuing his higher studies in the University of Saskatchewan, Saskatoon, Canada.
- Ramakrishnan V.T. (1967 PGDIE)
Industrial Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Ramakrishnayya B. (1967 B. Tech. Mechanical)
Senior Technical Assistant, Department of Applied Mechanics, I.I.T., Madras.
- Ramakrishna Rao V.V. (1965 B. Tech. Electrical)
Assistant Director, Central Water Power Commission (Power Wing), New Delhi.
- Ramakrishna Rao Y.N.V. (1965 B. Tech. Mechanical)
Graduate Apprentice, M/s. Ashok Leyland Ltd., Ennore, Madras
- Ramaiah S. (1965 B. Tech. Metallurgy)
Graduate Engineer, Sakthi Pipes Ltd., Mount Road, Madras.
- Ramalingam K. (1966 B. Tech. Mechanical)
Graduate Apprentice, Hindustan Steel Ltd., Rourkela
- Ramamurthy K. (1966 B. Tech. Electrical)
Assistant Design and Application Engineer, M/S. W.S.I. of India Ltd., Madras-16.
- Raman M.V. (1966 B. Tech. Electrical)
Apprentice Engineer (Production), M/s. Orient Power Cables, Cable Nagar, Kota, Rajasthan.
- Rama Reddy M. (1967 B. Tech. Mechanical)
Studying M.S. in the Montana State University, Bozeman, U.S.A.
- Raman K.V. (1967 M.Sc. Chemistry)
Research Scholar, Department of Chemistry, I.I.T., Kanpur.
- Raman P.V. (1967 B. Tech. Electrical)
Pilot Officer, Air Force Training College, Jalahalli, Bangalore.
- Raman R. (1967 B. Tech. Mechanical)
Associate Lecturer, Department of Mechanical Engineering, I.I.T., Madras.
- Raman Nair K. (1966 M. Tech. Electrical)
Lecturer, Electrical Engineering Department, Coimbatore Institute of Technology, Coimbatore.
- Ramana Rao P.V. (1967 B. Tech. Electrical)
Technical Teacher Trainee, Electrical Engineering Department, I.I.T., Kharagpur.
- Ramanand Jha (1967 B. Tech. Metallurgy)
Employed in West Germany.
Address: 41, Duisburg-Meiderich, Muhlen, Strape-69, West Germany.
- Ramani J. (1966 B. Tech. Chemical)
(Particulars not received).

- Ramani R. (1966 B. Tech. Metallurgy)**
Studying M.E. in the Indian Institute of Science, Bangalore.
- Ramanathan K. (1965 B. Tech. Electrical)**
(Particulars not received).
- Ramanarayanan L.R. (1965 B. Tech. Electrical)**
Graduate Engineer, Hindustan Steel Ltd., Bhilai.
- Ramaprakash Shetty M. (1965 B. Tech. Mechanical)**
Studying M.S. in the Illinois Institute of Technology, U.S.A.
Address: Box 329, 71E 32nd, Chicago, 60616, U.S.A.
- Rama Rao A. (1966 B. Tech. Metallurgy)**
Apprentice Metallurgist, Madras Aluminium Co. Ltd., Mettur Dam, Mettur R.S.
- Ramaswamy P. (1967 PGDIE)**
Executive Engineer, Neyveli Lignite Corporation, Neyveli.
- Ramaswamy R. (1964 M.A. M.Sc. Physics)**
Lecturer, Department of Physics, Thiagarajar College of Engineering, Madurai-15.
- Ramaswamy S. (1966 B. Tech. Metallurgy)**
Assistant Engineer, M/s. Mukand Iron and Steel Works Ltd., Kurla, Bombay-70.
- Ramaswamy T. (1965 M.Sc. Physics)**
Junior Scientific Officer, Institute of Tropical Meteorology, Poona-5.
- Ramesh N. (1965 B. Tech. Electrical)**
Research Scholar, Department of Electrical Engineering University of Toronto, Canada.
- Ramesh S.V. (1967 B. Tech. Civil)**
Design Engineer, M/s. Coramondal Steels Ltd., Madras.
- Ramesh Chandre (1966 B. Tech. Metallurgy)**
- Ramesh Chandra Mathur (1967 B. Tech. Mechanical)**
Engineering Management Trainee, The Hyderabad Usha Works, Hyderabad-37.
- Ramesh Chandra Sharma (1967 B. Tech. Mechanical)**
Shift Engineer, M/s. Devidayal Tube Industries, Bhandup, Bombay-78.
- Ramesh Kumar Saini (1967 B. Tech. Electrical)**
- Ramkumar S. (1964 B. Tech. Chemical)**
Graduate Engineer, M/s. E.I.D. Pary & Co. Ltd., Ranipet, North Arcot District.
- Ramath Sankaran (1967 B. Tech. Electrical)**
Junior Executive Trainee, Fertilizer Corporation of India Ltd., Sindhri, Bihar.
- Ramnath Shenoy P. (1966 B. Tech. Mechanical)**
Trainee-cum-Assistant, Jayramdas Udyog Ltd., Bangalore-10.
- Rangan A.S. (1966 B. Tech. Mechanical)**
Graduate Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Ranganathan K. (1967 B. Tech. Metallurgy)**
Engineer, M/s. Concord Industries, Madras-20.
- Ranganathan V. (1965 B. Tech. Mechanical)**
Designer, Department 693, Hindustan Aeronautics Ltd., Bangalore-17.
- Rangaraj S. (1967 B. Tech. Mechanical)**
Engineer, M/s. Kumaradhubi Fireclay and Silica Works Ltd., Kumaradhubi, Bihar.
- Rangarajan R. (1967 M. Tech. Mechanical),**
Engineer, M/s. Batliboi and Co., Surat, Gujarat State.
- Rangrajan K.N. (1966 B. Tech. Mechanical)**
(Particulars not received).
- Rangarajan P. (1966 B. Tech. Electrical)**
Electronics Engineer.
Electronics Ground Group, TERLS, P.B. No. 35, Trivandrum.
- Rangaswamy K.V. (1965 B. Tech. Civil)**
Engineer, Engineering Construction Corporation of India Ltd., Mount Road, Madras-2.
- Ranjit George Jacob (1967 B. Tech. Mechanical)**
Management Trainee, M/s. Imperial Tobacco Ltd., Bangalore.
- Ranjit Kumar Goel (1966 B. Tech. Metallurgy)**
(Particulars not received).
- Ratan Babu V. (1967 PGDIE) (1966 B. Tech. Mech.)**
Assistant Industrial Engineer, M/s. English Electric Co., of India Private Ltd., Pallavaram, Madras-27.
- Ratnakar Prabhu P. (1966 B. Tech. Chemical)**
Graduate Engineer, R. & D. Section, National Rayon Company, Kalyan, Bombay.
- Ratnakar Rao P. (1967 B. Tech. Metallurgy)**
- Ravichander K. (1966 B. Tech. Metallurgy)**
Employed in the Imperial Tobacco Co. Ltd., Saharanpur.
- Ravi Dutt Sharma (1967 B. Tech. Mechanical)**
(Particulars not received).
- Ravinder Bai Singh (1967 B. Tech. Civil)**
Studying M. Tech. at I.I.T., Delhi.
- Ravinder Kumar Varma (1965 B. Tech. Mechanical)**
Engineer, M/s. Escorts Ltd., Patiala.
- Ravindra Kumar Saxena (1967 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Kanpur.
- Rishi Raj Gaur (1967 B. Tech. Mechanical)**
Technical Teacher Trainee, Department of Mechanical Engineering, I.I.T., Delhi.
- Rodrigue Fredricks (1967 B. Tech. Metallurgy)**
Graduate Probationer, Mysore Iron and Steel Co. Ltd., Badravathi, Mysore.
- Sabastian D.J. (1967 B. Tech. Chemical)**
Pursuing his higher studies in the Imperial College, London.
- Saboo S.K. (1965 B. Tech. Electrical)**
Electronics Engineer, M/s. Malik Electric Works, Research and Development Section, Bombay.
- Sachidanandan K. (1966 B. Tech. Electrical)**
Engineer, M/s. English Electric Co. of India Ltd., Madras-27.
- Sadanand Yoki M.K. (1967 B. Tech. Civil)**
Studying M. Tech. at I.I.T., Bombay.
- Sadasivan K. (1965 B. Tech. Chemical)**
(Particulars not received).
- Sahasranaman C.V. (1965 B. Tech. Mechanical)**
(Particulars not received).
- Sahasranaman P.R. (1966 M. Tech. Civil)**
Junior Engineer, Kerala Engineering Research Institute, Peechi P.O., Trichur District, Kerala.

- Sakaria E.P. (1966 B. Tech. Civil)**
Associate Lecturer, Department of Civil Engineering,
T.K.M. College of Engineering, Quilon, Kerala.
- Sakti Kumar T.A. (1967 B. Tech. Mechanical)**
Engineer, Electronics Corporation of India, Ahmedabad.
- Saleem Ahmed M.J. (1967 B. Tech. Mechanical)**
Engineering Probationer, Bharat Electronics Limited,
Bangalore.
- Salim K. Kazi (1964 B. Tech. Mechanical)**
Junior Engineer, Press-Plant of the Premier Automobiles
Ltd., Ghatkopar, Bombay.
- Salil Kumar Chakravarthi (1967 PGDIE)**
Industrial Engineer, Bhilai Steel Plant, Bhilai.
- Sambasivan B. (1966 B. Tech. Mechanical)**
(Particulars not received).
- Sambasivan V. (1966 B. Tech. Mechanical)**
Graduate Apprentice, M/S. Ashok Leyland, Ltd., Ennore,
Madras-51.
- Samir Kumar Mukhopadhyay (1965 B. Tech. Civil)**
Assistant Engineer, Metropolitan Planning Organisation,
Calcutta.
- Sampath G. (1966 B. Tech. Electrical)**
Sales Engineer, M/s. Cutler Hummer Ltd., Madras.
- Sampath Kumar M.R. (1964 M. Tech. Civil)**
Technical Assistant, Bhilai Steel Plant, Bhilai.
- Samuel D.D. (1964 B. Tech. Mechanical)**
Assistant Project Engineer, M/s. American Refrigerator Co.
Ltd., Bombay.
- Sangameswaran A.R. (1965 B. Tech. Chemical)**
Junior Chemical Engineer, ESSO, Bombay.
- Sankaranarayan B. (1967 B. Tech. Civil)**
(Particulars not received).
- Santhanagopalan S. (1966 M. Sc. Chemistry)**
Research Scholar, Department of Chemistry, I.I.T.,
Madras-36.
- Santhanam A.T. (1964 B. Tech. Metallurgy)**
(Particulars not received).
- Santhanam A.V. (1967 B. Tech. Electrical)**
Studying M. Tech. at I.I.T., Madras.
- Santhanam M. (1965 M.Sc. Chemistry)**
Research Scholar, Department of Chemistry, I.I.T.,
Madras.
- Santhanam N. (1966 M. Tech. Mechanical)**
Lecturer, College of Engineering, Guindy, Madras-25.
- Santosh Nayak (1967 B. Tech. Chemical)**
Studying M.E. in the Indian Institute of Science, Bangalore.
- Sarat Chandra Misro (1966 B. Tech. Metallurgy)**
Pursuing his higher studies in the University of California,
Davis, U.S.A.
- Sarathy S. (1966 B. Tech. Metallurgy)**
Graduate Apprentice, M/s. India Forge and Drop Stamp-
ings Ltd., Ambattur, Madras-53.
- Sarma A.V. S.S.R. (1966 B. Tech. Mechanical)**
Studying M. Tech. at I.I.T., Kanpur.
- Sarma M.V.S. (1966 B. Tech. Mechanical)**
Graduate Apprentice, Bharat Heavy Electricals, Haridwar,
U.P.
- Saroj Talukdar (1964 B. Tech. Electrical) M.S.**
Research Scholar, Purdue University, Lafayette, Indiana,
U.S.A.
- Sastry C.S. (1964 M.Sc. Physics)**
Research Scholar, Department of Physics, I.I.T., Madras.
- Satis Kumar Puri (1965 B. Tech. Mechanical)**
Assistant Executive Engineer (Mechanical), Office of the
E.E. (Erection) II, Heavy Electricals Ltd., Haridwar,
U.P.
- Satis Malhotra (1967 B. Tech. Electrical)**
Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Sat Pal Singh (1966 B. Tech. Mechanical)**
(Particulars not received).
- Satyanarayana G. (1967 B. Tech. Mechanical)**
Studying M. Tech. at I.I.T., Kanpur.
- Satyanarayana K. (1966 B. Tech. Civil)**
Section Officer, Office of the Superintending Surveyor of
Works (C.P.W.D.), Calcutta-16.
- Satyanarayana T.C. (1965 M. Tech. Mechanical)**
(Particulars not received).
- Satyanarayana Rao D. (1964 B. Tech. Mechanical)**
Industrial Engineer, M/s. Union Carbide Company of
India Ltd., Hyderabad.
- Satyanarayana Rao P. (1965 M. Tech. Electrical)**
Associate Lecturer, Department of E. Engg., I.I.T.,
Madras-36.
- Satyavan Iyengar (1966 B. Tech. Mechanical)**
Studying M.S. in the Carleton University, Ottawa-1,
Canada.
- Satya Deo Misra (1967 B. Tech. Civil)**
Assistant Director, Works Plant (East), U.P. Agricultural
University, Pant Nagar, Nainital, U.P.
- Satya Prakash Shukla (1967 B. Tech. Mechanical)**
Management Trainee, M/s. Hindustan Lever Ltd., Bombay.
- Satyesh Kumar Nanda (1966 B. Tech. Civil)**
Studying M.S. in the Iowa State University of Science and
Technology, U.S.A.
- Seeladhari Rao Y. (1966 B. Tech. Chemical)**
(Particulars not received).
- Seethapathy Rao G. (1967 M. Tech. Civil)**
Studying at the Texas University, U.S.A.
- Seetharam Raj K. (1967 B. Tech. Chemical)**
Employed in Etikopaka Sugar Factory, Etikopaka P.O.,
Vizag District, A.P.
- Seetharama Sarma (1967 M. Tech. Civil)**
(Particulars not received).
- Seetharama Sastri K. (1966 B. Tech. Chemical)**
Completed his M. Tech. Course at I.I.T., Madras-36.
- Seghal R.S. (1965 B. Tech. Chemical)**
(Particulars not received).
- Sekhar N. (1967 B. Tech. Chemical)**
Studying M.S. in the University of Waterloo, Ontario,
Canada.
- Sekhar M.V.C. (1967 M.Sc. Chemistry)**
Joining M.S. Course in the University of Calgary, Calgary,
Canada during September, 1968.

- Seshadri Reddy (1964 B. Tech. Mechanical)**
Engineer, M/s. Voltas Ltd., Thana, Bombay.
- Sesha Subramanian P. (1966 B. Tech. Metallurgy)**
Assistant Metallurgist, Indian Forge and Drop Stampings, Ambattur, Madras-53.
- Sethumadhaven L. (1965 B. Tech. Metallurgy)**
Graduate Engineer, Hindustan Steel Ltd., Bhilai Steel Plant, Bhilai-1.
- Sethuraman G. (1967 B. Tech. Metallurgy)**
Engineer, Indian Aluminium Company Ltd., Calcutta.
- Sethuraman P.R. (1967 M.Sc. Chemistry)**
Research Scholar, Department of Chemistry, I.I.T., Madras-36.
- Shaik Abdul Khader (1965 B. Tech. Mechanical)**
Graduate Apprentice, Andhra Pradesh Paper Mills, Rajamundry, A.P.
- Shamlal Arora (1967 B. Tech. Mechanical)**
Junior Engineer Trainee, Fertilizer Corporation of India Ltd., Sindri.
- Shanth Kumar S. (1965 B. Tech. Metallurgy)**
Graduate Engineer, Hindustan Steel Ltd., Durgapur.
- Sharma D.B.V. (1965 B. Tech. Mechanical)**
Graduate Engineer, Hindustan Steel Ltd., Durgapur.
- Sharma G.N. (1964 B. Tech. Electrical M.S.)**
Research Scholar, Polytechnic Institute of Brooklyn, Brooklyn, New York, U.S.A.
- Sharma J.D. (1965 B. Tech. Mechanical)**
Assistant Superintendent, Quality Control Division (Receiving Inspections) Hindustan Motors Ltd., Uttarpara, Hoogly District, West Bengal.
- Sharma L.K. (1965 B. Tech. Chemical)**
Junior Chemical Engineer (Production), M/s. Fertilizer Corporation of India, Sindhri.
- Shashi Bhushan G. (1966 B. Tech. Electrical)**
Apprentice, Signal Inspector, N. Ry. Allahabad Division.
- Shaw Nawas Bukht (1967 B. Tech. Mechanical)**
Studying at Indian Institute of Management, Ahmedabad.
- Shivaram M. (1966 B. Tech. Mechanical)**
Pursuing his higher studies in the Tennessee Technological University, U.S.A.
Address: P.O. Box. 1821, Tennessee Technological University, Cookeville, Tennessee-38501. U.S.A.
- Shresta D.B. (1966 B. Tech. Chemical)**
Studying M.E. in the Indian Institute of Science, Bangalore-12.
- Shrikande V.V. (1965 B. Tech. Metallurgy)**
Foundry Engineer, M/s. Bharat Bijlee Ltd., Bombay.
- Shri Krishna Aggarwal (1966 B. Tech. Electrical)**
Employed in M/s. Khandelwal Bros., Bombay.
- Sheo Kumar Narasariah (1967 B. Tech. Metallurgy)**
Studying M. Tech. at I.I.T., Kharagpur.
- Siddhartha V. (1965 B. Tech. Mechanical)**
Research Scholar, Department of Mechanical Engineering, Imperial College of Science and Technology, London S.W. 7.
- Siddeswaran P. (1965 M.Sc. Chemistry)**
Senior Technical Assistant, Department of Chemistry, I.I.T., Bombay.
- Sihota D.S. (1964 B. Tech. Chemical)**
Applications and Development Department, Hoechst Dyes and Chemicals Ltd., Bombay-Agra Road, Muland, Bombay-80.
- Sitarama Rao B. (1967 B. Tech. Mechanical)**
- Siva S.N. (1966 M.Sc. Physics)**
Research Scholar, Institute of Mathematical Sciences, Adyar, Madras-20.
- Som Prakash Gupta (1966 B. Tech. Electrical)**
Associate Lecturer, Department of Electrical Engineering, Delhi College of Engineering, Delhi-6.
- Sridhar M.D. (1965 B. Tech. Electrical)**
(Particulars not received).
- Sridhar R. (1964 M.Sc. Mathematics)**
Research Scholar, Institute of Mathematics Sciences, Adyar, Madras-20.
- Sridharan J. (1967 B. Tech. Mechanical)**
Junior Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Sridharan M.R. (1966 M.Sc. Mathematics)**
Research Scholar, Department of Mathematics, I.I.T., Madras.
- Sridharan N.S. (1967 B. Tech. Electrical)**
Studying M.S. at the State University of New York at Stony Brook, Stony Brook, New York, U.S.A.
- Sridharan R. (1967 B. Tech. Chemical)**
Engineer, M/s. Dharangadara Chemicals Ltd., Tirunelveli.
- Sridharan T.S. (1965 M. Tech. Chemical)**
Research Assistant, Department of Chemical Engineering, University of New Brunswick, Fredericton, Canada.
- Srikant G. (1966 B. Tech. Civil)**
Assistant in the Structural Sales Section of M/s. Binny Engineering Works, Madras-61.
- Srinath M.R. (1967 B. Tech. Electrical)**
(Particulars not received).
- Srinath Bhaskaran (1967 B. Tech. Chemical)**
- Srinidhi M.A. (1966 B. Tech. Mechanical)**
- Srinivas Kamath 1967 B. Tech. Mechanical)**
- Srinivas Nageshwar (1964 B. Tech. Electrical)**
Engineer, M/s. Hewlett Packard Co., Boblingen, West Germany.
- Srinivasan K.V. (1965 B. Tech. Mechanical)**
Scientist, Indian Institute of Petroleum, Dehra Dun, U.P.
- Srinivasan M.G. (1966 M. Tech. Civil)**
Associate Lecturer, Department of Civil Engineering, I.I.T., Madras.
- Srinivasan P.S. (1966 B. Tech. Chemical)**
(Particulars not received).
- Srinivasan R. (1966 M. Sc. Chemistry)**
(Particulars not received).
- Srinivasan R. (1966 B. Tech. Civil)**
Studying M. Tech at I.I.T., Kanpur.
- Srinivasan R. (1967 B. Tech. Mechanical)**
Studying M.E. at the Indian Institute of Science, Bangalore.
- Srinivasan S. (1964 B. Tech. Mechanical)**
Junior Industrial Engineer, M/s. Union Carbide India Ltd., Madras-19.

- Srinivasan S.R. (1965 M. Tech. Electrical)**
Associate Lecturer, Department of Electrical Engineering, I.I.T., Madras.
- Srinivasan T. (1965 B. Tech. Chemical)**
Assistant Chief Burner, Chettinad Cement Corporation, Karur, Trichy District.
- Srinivasan T.P. (1965 M. Sc. Physics)**
Research Scholar, Development of Physics, I.I.T., Madras.
- Srinivasan T.P. (1967 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Bombay.
- Srinivasan V. (1966 B. Tech. Mechanical)**
Graduate Apprentice, M/s. Ferranti Works, U.K.
Address: 6, Montague Street, Edinburgh-8, England, U.K.
- Srinivasan V. (1966 B. Tech. Mechanical)**
On study leave from M/s. Larsen and Toubro Ltd. Bombay is joining as Research Assistant at Carnegie-Mellon University, Pittsburgh, Pennsylvania; U.S.A. for M.S. Programme in Industrial Administration for September, Semester 1968.
- Sriramachandramurthy K.S. (1965 B. Tech. Mechanical)**
Assistant Mechanical Engineer, Andhra Pradesh State Road Transport Corporation, Mushirabad, Hyderabad.
- Sriramachandramurthy R. (1966 B. Tech. Civil)**
Completed M.E. course in the Indian Institute of Science, Bangalore.
- Sriramachandra Rao V. (1967 B. Tech. Chemical)**
Technical Teacher Trainee, I.I.T., Madras.
- Subash Chandra Awasthy (1967 M. Tech. Civil)**
Studying M. Tech. at I.I.T., Kanpur.
- Subash Chandra Chaudhary (1967 B. Tech. Civil)**
- Subash Chandra Malhotra (1965 B. Tech. Chemical)**
Graduate Engineer, Saurashtra Chemicals, Porbandar-2.
- Subash Krishna Gupta (1967 B. Tech. Civil)**
Junior Research Fellow, Traffic Department, Central Road Research Institute, New Delhi.
- Subash Kumar (1967 B. Tech. Mechanical)**
Graduate Trainee, Engineering Department, M/s. American Refrigerator, New Delhi-15.
- Subash Malhotra (1967 B. Tech. Electrical)**
Apprentice Electrical Engineer, M/s. Jaisun Udyog Ltd., Rajasthan.
- Subramani J. (1967 B. Tech. Electrical)**
(Particulars not received)
- Subramanian A.K. (1966 B. Tech. Mechanical)**
Draftsman, Avady Tank Factory, Madras.
- Subramanian B.R. (1966 M.Sc. Mathematics)**
Assistant Professor, Mathematics Department, Presidency College, Madras-5.
- Subramanian B.V. (1966 B. Tech. Civil)**
Completed his M. Tech. Course at I.I.T., Madras-36.
- Subramanian C.P. (1966 B. Tech. Mech.)**
(Particulars not received)
- Subramanian G. (1967 B. Tech. Chemical)**
Technical Teacher Trainee, Department of Chemical Engineering, I.I.T., Kanpur.
- Subramanian K.M. (1967 M. Tech. Chemical)**
Sales and Service Engineer, Steam Association of South India, Madras.
- Subramanian K.S. (1966 B. Tech. Civil)**
Draftsman Engineer, M/s. Thiruveni Structurals Ltd., 7, Liddle Road, George Town, Allahabad-2.
- Subramanian M.G. (1967 B. Tech. Mechanical)**
Studying in the Indian Institute of Management, Ahmedabad.
- Subramanian R. (1966 B. Tech. Mechanical)**
Studying M.S. at the Illinois Institute of Technology, Chicago, U.S.A.
- Subramanian S.K. (1967 B. Tech. Chemical)**
Systems Programmer, TELCO Computer Centre, Telco, Main Office, Jamshedpur-10.
- Subramanya Rao H.K. (1967 B. Tech. Mechanical)**
Graduate Engineer, Hindustan Steel Ltd., Rourkela.
- Subramanyam P.M.V. (1966 M. Tech. Electrical)**
Assistant Engineer (Special Project Team), Bharat Electronics Ltd., Jalahalli, Bangalore-13.
- Subrahmanyam S.V. (1965 M. Tech. Electrical)**
Graduate Assistant, Computer Science Center, University of South Carolina, Columbia, U.S.A.
- Subrahmanyam V. (1965 M. Tech. Civil)**
Structural Engineer, M/s. K.C.P. Industries Ltd., Madras-19.
- Subramanyam A.R. (1965 B. Tech. Mechanical)**
Employed in West Germany, 671, Frankethal, Flomer-shemser, Str. 12, West Germany.
- Sudhakar Baliga (1964 B. Tech. Chemical)**
Engineer, M/s. ESSO Bombay Refinery, 15E, ESSO Nagar East, Mahul P.O. Bombay-74.
- Sudhakaran G. (1966 M.Sc. Physics)**
Lecturer in Physics, Sri Narayana College, Quilon, Kerala.
- Sudharsanam G. (1967 M. Tech. Chemical) (1965 B. Tech. Chemical)**
Associate Lecturer, Coimbatore Institute of Technology, Coimbatore, Madras State.
- Sudhir Chandra B.S. (1964 B. Tech. Civil)**
Assistant Engineer, Jagalpur, Bhisaval, Railway Electrification Project, Deolali.
- Sudhir Kumar Phull (1967 B. Tech. Chemical)**
- Sudhir Nanda B. (1966 M. Sc. Physics)**
Research Scholar, Department of Physics, I.I.T., Kanpur.
- Sudhir Puri (1966 B. Tech. Mechanical)**
Graduate Apprentice, The English Electric Co., Madras-27.
- Sunanden Sen (1967 B. Tech. Civil)**
Site Engineer, M/s. Shib Banerjee Construction (P) Ltd., New Delhi-48.
- Sundar M. (1967 B. Tech. Metallurgy)**
(Particulars not received).
- Sundaram A. (1964 M.Sc. Mathematics)**
Research Scholar, Institute of Mathematical Sciences, Adyar, Madras-20.
- Sundararajan D. (1966 B. Tech. Electrical)**
Studying M.E. in the Indian Institute of Science, Bangalore.
- Sundaresan L.S. (1967 B. Tech. Chemical)**
Studying M. Tech. at A. C. College of Technology, Madras-25.

- Sundaresan V. (1966 M.Sc. Mathematics)**
Lecturer, Department of Mathematics, Thiagarajar College of Engineering, Madurai-15.
- Sundaresan V. (1967 B. Tech. Chemical)**
Production Trainee, M/s. Polyolefins Industries Ltd., Thana, Bombay.
- Surendra Mohan Mehta (1967 B. Tech. Mechanical)**
Superintendent, E/MI/ Engineers Park, Kanpur Road, Allahabad.
- Surendra Pai (1967 PGDIE)**
Industrial Engineer, M/s. Sarabai Group Services, Amedabad.
- Surendra Prasad (1967 B. Tech. Civil)**
(Particulars not received)
- Surendra Swaroop (1966 B. Tech. Mechanical)**
Engineer, Machine Tool Division, M/s. Mahindra and Mahindra Ltd., No. 5, Ferguson Road, Worli, Bombay-18.
- Surendran K. (1967 M. Tech. Electrical)**
Studying M.S. in the State University of New York at Stony Brook, Stony Brook, U.S.A.
- Suresh D. (1967 B. Tech. Mechanical)**
Engineer, M/s. W.I.M. Co., Tiruvottiyur, Madras-19.
- Suresh H.R. (1967 B. Tech. Electrical)**
Studying PGDIE at I.I.T., Madras-36.
- Suresh Kumar Chopra (1967 B. Tech. Civil)**
Assistant Engineer, M/s. Continental Construction Private Ltd. Obra Dam Project, Mirzapur.
- Suresh Kumar Hawa (1967 PGDIE)**
Mining Engineer, Department of Mining and Geology, Government of Rajasthan, Jaipur.
- Suresh Rama Rao H. (1967 M. Tech. Civil)**
Associate Lecturer, Department of Civil Engineering, I.I.T., Madras-36.
- Suresh Nagar Shenoy (1967 B. Tech. Electrical)**
- Surjanarayanan V. (1967 M. Tech. Mechanical)**
Lecturer, College of Engineering, Guindy, Madras-25.
- Surjit Singh Randava M.S. (1964 B. Tech. Mechanical)**
Doing Ph. D. in the University of California, Berkeley-4, California, U.S.A.
- Surrinder Kumar Sethi (1967 B. Tech. Civil)**
Assistant Site Engineer, M/s. Uttam Singh Duggal, Delhi.
- Surrinder Mohan Sud (1966 B. Tech. Mechanical)**
Graduate Apprentice, M/s. Devi Dayal Tube Industries, Bhandup, Bombay-78.
- Suryanarayanamurthy K. (M. Tech. Chemical)**
(Particulars not received)
- Suryanarayanamuthy P. (1965 B. Tech. Electrical)**
Junior Engineer, (Electrical) W. M. & S. Division, Pochanbandu P.O., Karim Nagar District, A.P.
- Suryanarayanan T. (1966 B. Tech. Chemical)**
Apprentice Officer, M/s. Seshasayee Industries Ltd., Vadalur, S. A. District, Madras State.
- Suryaprakasa Rao P. (1967 B. Tech. Mechanical)**
Studying M. Tech. at I.I.T., Kharagpur.
- Sushil Kumar Dhali (1967 B. Tech. Chemical)**
Technical Sales Officer, M/s. Rockwell Electrodes India Ltd., Madras-58.
- Swaminathan P. (1967 B. Tech. Mechanical)**
Probationary Engineer, Bharat Electronics Ltd., Jalahalli.
- Tank S.D. (1964 B. Tech. Electrical)**
Graduate Trainee, TISCO, Jamshedpur.
- Tejinder Paul Singh (1964 B. Tech. Metallurgy)**
Engineer, M/s. Shivananda Steels Ltd, Ambattur Industrial Estate, Madras-58.
- Thangavelu S.R. (1964 B. Tech. PGDIE)**
Joining as Research Assistant, at the Georgia Institute of Technology, U.S.A. for M.S. Program in Industrial Engineering for September Semester 1968.
- Thanhnuha (1965 B. Tech. Mechanical)**
Assistant Mechanical Engineer, Assam Cements Ltd. Mawmluch P. O., Chirapunji.
- Thayumanasundaram R. (1967 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Madras-36.
- Teodar Jeyachandran L. (1965 M. Tech. Civil)**
Assistant Executive Engineer in the P & T Civil Circle at Bombay.
- Thimmapayya J. (1967 B. Tech. Civil)**
(Particulars not received)
- Tikle M.S. (1966 B. Tech. Chemical)**
Sales Officer, M/s. Keelachand Devchand and Co. Private Ltd., 284, Frere Road, Skylark Building, Bombay-1.
- Trilok Singh (1967 B. Tech. Electrical)**
- Umesh Singha (1967 B. Tech. Mechanical)**
Graduate Engineer, TISCO, Jamshedpur.
- Vaidyanathan S. (1966 B. Tech. Mechanical)**
Graduate Trainee, Production Central Department, Britania Biscuit Factory Ambattur, Madras.
- Vaidyanathan S. (1967 B. Tech. Metallurgy)**
Engineer Apprentice, M/s. Carburettors Ltd., Madras.
- Vaithilingam K. (1966 B. Tech. Chemical)**
Graduate Apprentice, Indian Oil Corporation, Barauni.
- Varadarajan M.S. (1965 B. Tech. Electrical)**
Research Scholar, Department of Electrical Engineering, I.I.T., Kanpur.
- Varadarajan T. (1964 B. Tech. Metallurgy)**
Lecturer, University of Roorke, Roorkee, U.P.
- Varadarajan V. (1966 B. Tech. Mechanical)**
Apprentice Officer, M/s. Seshasayee Industries Ltd., Vadalur, South Arcot District, Madras State.
- Varghese A.K. (1965 B. Tech. Metallurgy)**
Lecturer, Regional Engineering College, Calicut, Kerala.
- Vasudevan R. (1966 B. Tech. Electrical)**
Engineer, M/s. Siemens Engineering, Mount Road, Madras-2.
- Vasudevan S. (1967 B. Tech. Electrical)**
- Vaswani R.A. (1965 B. Tech. Mechanical)**
Sales Officer, M/s. Shriram Refrigeration Industries Ltd., Hyderabad-37.
- Vatsala V. (1967 M.Sc. Mathematics)**
Lecturer, Lady Doak's College, Madurai.
- Veera Raghavan S. (1965 B. Tech. Chemical M.S.)**
Research Scholar, Department of Chemical Engineering, University of Waterloo, Ontario, Canada.

- Veeraraghavan R. (1967 B. Tech. Mechanical)**
Studying in the Indian Institute of Management, Ahmedabad.
- Venkappayya D. (1965 M. S.c Chemistry)**
Research Scholar, Department of Chemistry, I.I.T., Madras.
- Venkatanarayana M.S. (1967 M. Tech. Chemical)**
Associate Lecturer, Coimbatore Institute of Technology, Coimbatore.
- Venkatapatabiraman L. (1964 B. Tech. Metallurgy)**
(Particulars not received)
- Venkataraman G. (1967 B. Tech. Mechanical)**
- Venkataraman P. (1967 B. Tech. Mechanical)**
Engineer Trainee, M/s. Carborandum Universal Ltd., Madras-19.
- Venkataraman R. (1966 M. Tech. Mechanical)**
Assistant Engineer (Electronics), Bharat Electronics Ltd., Bangalore-13.
- Venkataraman Sekhar (1965 B. Tech. Mechanical)**
Graduate Apprentice, Hindustan Steel Ltd., Rourkela.
- Venkataramana Reddy A. (1967 B. Tech. Electrical)**
- Venkataramani S. (1966 B. Tech. Electrical)**
Engineer, M/s. Southern Switch Gear Ltd., Ambattur, Madras-58.
- Venkataramani Y. (1967 B. Tech. Electrical)**
Lecturer, Regional Engineering College, Calicut, Kerala.
- Venkataraman S.N. (1964 M.Sc. Mathematics)**
Senior Technical Assistant, Department of Mechanics, I.I.T., Madras-36.
- Venkateshiah P. (1964 B. Tech. Civil)**
Engineer, M/s. Satyanarayana Bros, Ennore, Madras-15.
- Venkatasubramanian T.L. (1967 B. Tech. Mechanical)**
- Venkatasurya Rao (1965 B. Tech. Chemical)**
(Particulars not received)
- Venkatesan B. (1965 B. Tech. Mechanical)**
Graduate Engineer, M/s. Metropolitan Instruments Ltd., Trivandrum.
- Venkatesan V. (1966 B. Tech. Mechanical)**
Studying M.S. in the University of California, U.S.A.
- Venkatesh S. (1967 B. Tech. Mechanical)**
Studying M.E. at the Indian Institute of Science, Bangalore-12.
- Venkateswara Rao M. (1965 B. Tech. Metallurgy)**
(Particulars not received).
- Venkateswara Rao P.V. (1964 B. Tech. Electrical)**
Inspector of Factories, Khammam, A.P.
- Venkateswaralu D.B. (1966 B. Tech. Metallurgy)**
Graduate Apprentice, Hindustan Steel Ltd., Rourkela.
- Venkateswaralu J. (1964 B. Tech. Metallurgy)**
Employed in West Germany,
Address : 563, Rs. Luttinghausen Linde, 117, West Germany.
- Venkateswaran R. (1964 B. Tech. Electrical M.S.)**
Research Scholar, Carnegies Institute of Technology.
Address : 1000/Morewood Ave. Pittsburg, Pa 15213, U.S.A.
- Venkobachar C. (1966 B. Tech. Civil)**
Completed his M. Tech. Course at I.I.T., Kanpur.
- Venugopal Ch. (1967 M. Tech. Chemical)**
Materials Engineer, Space Science, and Technology Centre, Trivandrum.
- Venugopal S. (1967 B. Tech. Electrical)**
Studying in the Indian Institute of Management, Ahmedabad.
- Venugopal V. (1965 B. Tech. Metallurgy)**
Studying M.S. in the Marquette University, Milwaukee Wis. 53233, U.S.A.
- Venugopal Pillai (1967 B. Tech. Mechanical)**
Studying in the I.I.M., Ahmedabad.
- Victor T. (1967 B. Tech. Mechanical)**
Studying MS. at the University of California, Berkeley, U.S.A.
- Vidyasagar G.E.C. (1964 B. Tech. Electrical)**
Assistant Engineer, State Electricity Board, Hyderabad.
- Vidyasagar T. (1967 B. Tech. Electrical)**
- Vijay Manohar Gokhale (1967 B. Tech. Chemical)**
Engineer Trainee, M/s. Tata Ebasco Consulting Engineering Services, Bombay-9.
- Vijaya Krishna Bhatra (1964 B. Tech. Chemical)**
Lecturer, Department Chemical Engineering, Indian Institute of Technology, Delhi.
- Vijayakumar A. (1965 B. Tech. Mechanical)**
(Particulars not received)
- Vijaya Kumar M. (1966 B. Tech. Mechanical)**
Apprentice Engineer, M/s. Larsen and Toubro Ltd., Bombay.
- Vijaya Kumar P.T. (1965 M. Sc. Physics)**
(Particulars not received)
- Vijaya Kumar Sawhney (1967 B. Tech. Electrical)**
Joining M.S. Programme in Electrical Engineering at the University of Wisconsin, U.S.A. for September Semester 1968.
- Vijyalakshmi S. (1964 M.Sc. Physics)**
Research Scholar, Department of Mathematics, I.I.T., Madras-36.
- Vijayan C.P. (1966 M. Tech. Chemical)**
Foreman, Indian Aluminium Co., Ltd., Alupuram, Always.
- Vijayan S. (1967 B. Tech. Chemical)**
Studying M. Tech. at I.I.T., Madras-36.
- Vijayanathan K.R. (1965 B. Tech. Chemical)**
(Particulars not received).
- Vijaya Prakash (1966 B. Tech. Electrical)**
Started his own business at Moradabad, U.P.
- Vijaya Raghavan S. (1966 B. Tech. Electrical)**
Technical Teacher Trainee, University of Roorkee, U.P.
- Vijaya Sharda (1966 B. Tech. Mechanical)**
Production Engineer, M/s. Sriram Refrigeration Industries Ltd., Hyderabad-37.
- Vikram Rao (1965 B. Tech. Metallurgy M.S.)**
Doing his Ph. D. in the Stanford University, California, U.S.A.
- Vinaya Chandra Varshney (1964 B. Tech. Mechanical)**
Assistant Engineer, Sub-Division, 3, Boiler Erection Division, 1, U.P. State Electricity Board, Orba, Mirzapur.

Vinaya Khanna (1967 B. Tech. Electrical)
Studying M.S. in the University of Minnesota, U.S.A.

Vinod Kumar M. (1967 B. Tech. Chemical)
(Particulars not received).

Vinod Kumar Batra (1965 B. Tech. Electrical M.S.)
(Particulars not received).

Vinod Kumar Sethi (1967 B. Tech. Electrical)
Studying M. Tech. at I.I.T., Bombay.

Vinod Kumar Srivatsava (1966 B. Tech. Electrical)
(Particulars not received)

Virendra Kumar Mithal (1967 PGDIE)
Studying Engineer, M/s. Poddar Spinning Mills Ltd., Jaipur,
Rajasthan.

Vishnumoorthy Bhat (1967 B. Tech. Electrical)
Completed his M. Tech. Course at I.I.T., Kanpur.

Vishnu Sahai Srivatsava (1964 B. Tech. Mechanical)
Staff Member, Gorakhpur Engineering College, Gorakhpur,
U.P.

Viswanatha Rao H.K. (1966 B. Tech. Mechanical)
Graduate Apprentice, M/s. Ashok Leyland Ltd., Ennore,
Madras-51.

Viswanathan G. (1964 B. Tech. Civil)
(Particulars not received).

Viswanathan S. (1966 B. Tech. Chemical)
Completed his M. Tech. Course at I.I.T., Kanpur.

Viswanathan T.N. (1966 B. Tech. Metallurgy)
Studying M. Tech. at I.I.T., Bombay.

Visweswara Rao A. (1966 M. Tech. Electrical)
Lecturer, Electronical Engineering Department, College of
Engineering, Anantapur, A.P.

Vivekanandan J. (1965 B. Tech. Mechanical)
Graduate Apprentice, Easun Engineering Co., Madras-1.

Vora Yatin (1967 B. Tech. Civil)
Studying M.E. at Indian Institute of Science, Bangalore-12.

Waikuntham N. (1964 M. Tech. Civil)
Assistant Professor, Civil Engineering Department, Birla
Institute of Technology, Ranchi.

Yogesh Kumar Batra (1967 B. Tech. Chemical)
(Particulars not received)

Zachariah C.T. (1965 B. Tech. Mechanical)
Employed in West Germany,
Address: Zahnrad Fabrik Friendrichshafen Ag. Work,
Schwabisch Gmund, (Field Industrial Engineering), West
Germany.

THE ALUMNI ASSOCIATION
INDIAN INSTITUTE OF TECHNOLOGY,
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