

E-NEWS LETTER



IITR ALUMNI ASSOCIATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE - 247 667 (UTTARAKHAND) INDIA



2017-18

October 2017

No.2

MESSAGE FROM THE DEAN OF RESOURCES AND ALUMNI AFFAIRS

Dear Alumni of IIT Roorkee:

Greetings from your Alma Mater!

I believe that alumni play a very important role in the growth of any academic institution of the world. This is especially true for institutions of higher learning. From that perspective, IIT Roorkee has a distinct edge over comparable institutions in India given an alumni base spanning over 170 years.

You would be happy to learn that your institute has recently initiated several schemes to promote excellence in students, faculty and departments. This has created an opportunity for all of you to contribute to help your institute shine among the best academic institutions of the world. You can get in touch with me to learn more about these schemes which include scholarships

and awards to students, Fellowships and Chair Professorships to faculty members, travel grants etc.

In this context, I would like to quote Mr. N.R. Narayan Murthy "Nobody is bothered about an institution more than its alumni". I invite you to take out some time from your busy life and visit your institute. Whenever you think of your student life and wish to make a donation / contribution for the development of the institute, please feel free to drop me a line. I would see that together we do whatever is needed to help you cherish the special bond that you have with your Alma Mater.

Yours truly,

Bhola R. Gurjar, PhD

E-mail: dora@iitr.ac.in Website: <https://dora.iitr.ac.in>

UNIVERSITY TO IIT – THE JOURNEY SO FAR

Prof. S.P. Gupta, Former Dy. Director, IITR

The year 2001 will go down as another landmark year when UOR became IITR. Prof. D.V. Singh, Vice Chancellor, led the change very eminently. In his rather short tenure, he got the Institute a 10 acre piece of land in Knowledge Park, Greater Noida from the UP Government.

In the last 16 years, IIT Roorkee has moved under four Directors – Professors Prem Vrat (2001-2006), Suresh Chand Saxena, (2006-2011), Pradipta Banerji (2011-2016) and Ajit Kumar Chaturvedi (since 2017). All made it better and richer than before.

Prof. Prem Vrat's leadership will be remembered for clean and forward looking administration. A number of modern buildings came up, namely, seven storied Hill View and Canal Apartments, Mahatma Gandhi Central Library, NC Nigam Visitor's Hostel, Non-teaching staff Apartments, etc. in addition to other amenities. Distinguished Alumnus Award and Outstanding Teacher Award for faculty were started. The campus started looking vibrant.

Prof. Suresh Chand Saxena met with a major policy change as he began. The Central Government increased student intake to accommodate 27% students of OBC category. His task was set. Create more buildings to accommodate increased numbers. Three new multistoried boys' hostels and a new girls' hostel, each of 800 seat capacity came up. A new lecture hall complex with the facility of large class rooms and two new multi storied faculty residential complexes also came up. Professor Saxena also got the construction of Greater Noida Campus completed.

At 52, Prof. Pradipta Banerji was the youngest ever to lead the fortunes of this Institute. He was less formal in his functioning. He brought fresh air in Alumni relations at Roorkee. He made 25th November, the Foundation Day of the Institute, as Alumni Day. He also got the Main Building named after James Thomason. He

took many decisions for all round development, to name a few (a) all faculty members got an air conditioner in their offices, (b) got a master plan for Roorkee campus made and got construction of four new buildings started – A transit accommodation of 280 1-bedroom units, a new lecture hall complex, a boys hostel of 800 single seated rooms and a student activity centre (c) got started a new major building complex, called Multi Activity Centre, which has several student centric amenities and a modern 400-seat Auditorium (d) got a roof top solar system which generates 1.8 MW electrical power, provides hot water in residences of faculty and hostels and used in students' messes for solar cooking (e) a standby DG set system of 6 MVA capacity to cater to bulk load of the campus was made functional (f) got a comprehensive peer review of IIT Roorkee done from a panel of eminent academicians led by Dr. Anil Kakodkar (g) got faculty recruitment done regularly a record number of over 100 faculty members were appointed (h) created a number of new positions of Deputy Registrars, Assistant Registrars and Estate & Works staff (i) got in place an all encompassing ERP portal "Advaita", (j) created new multi disciplinary centre and established a modern Tinkering lab.

In January 2017, Prof. Ajit Chaturvedi took over as the present Director. A hard working and meticulous, Prof. Chaturvedi continued the improvements by introducing openness in functioning of the Institute and making it more participative and less restrictive. He aims to recruit the best of faculty members. He has just begun and the Institute is poised for a big leap under his leadership.

IIT Roorkee is moving from strength to strength under successive Directors. The Thomasonian culture is giving way to IIT culture but the aura of Roorkee remains unchanged.

STUDENT ACHIEVEMENT

ERICSSON INNOVATION AWARD-2017 Ekdeep Lubana, II year ECE, Anisha Godha, IV year IMT GT, Ankit Bagaria, III Year Chemical, and Utkarsh Saxena, III Year Metallurgy, students of Indian Institute of Technology, Roorkee have won First prize of Euro 25000 in Ericsson Innovation Award-2017. As a part of three global finalists they competed at Noble Museum in Stockholm, Sweden



The theme for Ericsson Innovation Awards 2017 was FUTURE OF FOOD. The Roorkee team developed the app 'SNAP' which uses a precision agriculture technology based on principles of hyper-spectral imaging of crop leaves to determine the optimum fertilizer inputs for the crop. SNAP aimed to develop low cost handheld imaging device for optimizing fertilizer use in agricultural operations thus alleviating the soil degradation from excessive use of fertilizer as well as ecosystem deterioration.

VALEO INNOVATION CHALLENGE 2017

Abhishek Sachdeva, Amit Manchanda, Animesh Gupta, Anshul Jain and Raghav Chawla, a team of five students representing IIT Roorkee were selected as global finalists for the Valeo Innovation Challenge 2017. After three phases of evaluation, only 7 teams have reached the finals, which shall be held on October 26 2017 in Paris. In the initial stages, 1627 teams from 748 universities and 80 countries had participated.

The Alumni Association on behalf of All Alumni of IIT Roorkee congratulate the two teams for their astounding achievement.

IIT ROORKEE START UPS

Vikas Kakwani - 1993 EE Manuj Agarwal - 1993 EE	AAS VIDYALAYA 50% of children in India drop out after Primary due to various reasons. AAS (Anytime Anywhere School) will take the school TO them by providing education through a "Real" school experience albeit ONLINE using Smartphone as the key medium.
Praphul Misra – 1987 E&C	OUR INITIATIVE INDIA Media space buying and selling is an unstructured, fragmented, inefficient and opaque ecosystem. Oi media will offer a transparent, efficient and reliable marketplace that reduces wastage of time, money and effort.
Vinay Kumar Jaiswal - 1999 CST	SOLARIO SOLAR Sauroville Tech P Ltd is a for-profit Social Enterprise to deliver significant Positive Impact on Bottom of Pyramid (BoP), while working in a sustainable for-profit mode, offering off-grid rooftop SOLAR, Solar Battery Charging Stations & EV (Electric Vehicle) products and solution leveraging technology-based innovations.
Nitin Kumar - 2003, Mech Alok K Sahu - 2003, NIT	KARKHANA Improve the capacity utilization of manufacturing companies from 60 % to 90% by use of technology to address the chronic issue of capacity-order mismatch.
Anurag Soni - 2004, CSE Sachin Kanaujia-2004 ECE	ADORAZ Helping Users purchase the best jewellery piece from a click of a button at the right price with confidence, by bringing the offline jewelers to the digital marketplace. Help Merchants increase visibility, reach and revenue, by quickly adopting the Digital platform
Siddharth Angrish-2004 CSE Atul Gupta - 2005 CSE www.jiyyo.com	JIYYO Millions of Patients and Thousands of HealthCare Providers are looking for a platform to discover each other. Jiyyo is a marketing platform for Hospitals/Labs/Chemists where patients can search for their medical needs and connect to providers.
Pankaj Dahiya – 2005 Mech Vikas Ranga - 2013 Civil Devendra P Singh –2015 CSE Shailesh Prithani-2005 CSE	BYPOTHIZER Our mission is to make CCTV system intelligent, using Deep Learning and Computer Vision Technologies
Siddharth Jain – 2007 MIED siddharth@vaahika.com	VAAHIKA Technology enabled aggregation; bringing efficiency, convenience and transparency to long haul logistics. It aims at creating India's first 'Single Window Logistics Ecosystem'
Karan Kukreja-2009 Mech	THE GREAT INDIAN FILM & LITRATURE FESTIVAL GIFLIF is world's first and only Film and Literature Festival, launched (in Dec 2015) with the intent to provide a platform to independent film-makers and authors to showcase their talent.

Puneet Jain-2009 Chemical Nikhilesh Mishra-2009 Mech	GRINTECH MOTORS & SERVICES (P) LTD Help electric vehicle market scale by developing cost optimized Lithium Ion Smart Energy Storage Solutions Design in India for Indian needs: Prevent over design; Reduce cost Modular Structure : Zero development Cost for custom applications Very low cost as compared to imported lithium battery packs
Vineet Chirania-2010, CSE Mohd Amir-2010 CSE Karan Attri-2011 EE	TRAINMAN Complex Railway system accompanied by long waiting list for a journey, huge train delays and inconvenience in accessing railway information led to the birth of Trainman. Trainman provides Waitlist PNR confirmation prediction, Seat Availability, Offline Train Tracking and simplified access to railway information.
Rajeev Tamhankar - M Tech Polymer 2012	TBS PLANT AUGMENTED REALITY COMICS TBS Planet is an Augmented Reality Content Startup that develops technology enabled content across genres and age-groups. It has been official comics partners for Reliance Jio Chat and Bollywood movies like – “Shivaay” and “A Flying Jatt”
Rahul Nanwan i- 2012 EE	IMAGEKIT.IO Make websites and apps 30-40% faster by auto-optimising images. Simplifying workflows around image transformations, storage, delivery and automated tagging.

START UPS INCUBATED AND MENTORED BY TIDES

Akshay V. Singhal- 2015 Met Sayantan Biswas- Mech.	LOG 9 MATERIALS NANNOVATING THE WORLD! Log 9 innovates and develops end user commercial applications of the wonder material 'Graphene'. We develop scientifically proven nano-technologies from the labs into commercially viable end products for industrial production. First Product Launched in the Market - PPUF
Purvishkumar Patel-2014 MTech Smita Tank-M.Tech Software	TRANSPORT.CO.IN It is an online and mobile marketplace to connect loads with goods carrier vehicles. Our comparison metrics help customers to select most relevant transporters for them and our lead generation technology in turn empower transporters and truckers with more business.
Deepanshu-2015 Mech Atul-2015 Mech Mohit-2015 Elec	CONTREE Mobile based payment solution for college canteens and expense settlement platform for students.
Alok Katiyar-2015 Chem Sanjay Meena-2015 Chem Sonaal Topno-2015 GPT Vishal Meena- 2016 Chem	MADGUY LABS A platform that unites Students, Teachers and Coaching Institutes for various competitive and entrance exams, focuses on facilitating online learning, classroom program and regulating un-organized coaching industry.
Narayan S Rao-2005, ECE Pawan K Panwar-2012, P&P	THE INDIAN IRIS Bridging the information gap between policy formulation and its implementation via providing simplified and aggregated information, leading to increased awareness and thereafter offering end to end services to citizens and businesses to avail govt benefits

STUDENT START UPS

Ankit Alok Bagaria- III Chem Ekdeep S Lubana- II ECE	SNAP It is an optical imaging device which calculates the Concentration of Nitrogen in a leaf and determines the Optimum Fertiliser Inputs using a mobile application to Maximise Yield.
Kuldeep Singh-Mech 2014-18 Rishabh Gupta-Mech,2014-18	PCSS IITR Inter university transportation, system. Public cycle sharing system for university campuses.

Pramudit Somvanshi-III Civil Saurabh Anand-III Met	INGENIUM The problem is every student is taught in the same way regardless of their capability and learning speed. We identify the learning gap of student through knowledge mapping and then personalised homework is provided to bridge the learning gap
Ashwani Soni-IV Arch Utkarsh Saxena-III Biotech Sonu Kumar-III Biotech	PRAGO Creating smart shopping experience by standardising the local market
Rahul Rata Mirdha-IV EE Amit Manchanda-III ECE	CAMPUS FRIEND A platform which brings together like minded people Recommendation system for campus related activities Recommendation of Elective Courses, Groups, Movies

NEWS FROM LOCAL CHAPTERS

MUMBAI CHAPTER

Organised a family get to gather Monsoon Splash with Waterfall, Greenery and Nature on July 23, 2017 in New Mumbai.

Subhash Garg,
President
9833047016

Pradeep Aggarwal,
Vice President
9869204595

Manoj Jain,
Secretary
9702500049



USA

Roorkee Alumni from Bay Area organised a picnic on June 03, 2017 at Lake Elizabeth, Fremont, USA



DEHRADUN CHAPTER

Organised a get to gather at ONGC auditorium on 10 September 2017 attended by 171 alumni and their family members

M.P. Jain, President
9756400033

S. M. Saxena,
Vice President

Pradeep Sahariyar,
Secretary



BHOPAL CHAPTER

Organised a get together on 30 April 2017 at MANIT Bhopal VIP Guest House.

H.K. Khaira, President
9827275970

S.N. Bajpai, Secretary
9425604261



AHEMDABAD CHAPTER

The AGM of Ahemdabad Chapter was organised at Ellisbridge gymkhana on 21 May 2017. The programme included a comedy show of 90 minutes duration by a leading comedian. Mr B.K. Chaturvedi, President IITR Alumni Association graced the occasion. Sudhir K. Jain, President



LUCKNOW CHAPTER

The Chapter Organised its Annual Meet on 16 April 2017 at Vishveshwarya Auditorium

Rajiv Agarwal, President
9636292222

Anuj Varshneya, Secretary
9839022848

NEPAL CHAPTER

The Twenty Second Annual General Meeting cum get together was organised on 04 September 2017. About 80 Alumni and their spouses attended. The participants included Shankar Krishna Malla (1956) and the young ones who have graduated in 2017. A talk on Soil Reinforcement for Slope Stabilization Technology was given by Er. Basu Dev Pokharel.

Umesh B. Malla Basu Dev Pokhrel Biswa Balla
 President Secretary General Treasurer



1980 BATCH REUNION

1980 Batch Reunion at Golden Tulip Resort, Chandigarh on 9 September 2017.



OUR ALUMNUS

Devanshu Mishra, IIT Roorkee alumnus and his friend Deepak Kumar, organised and collected about ₹ 97000. These funds were invested to provide free education 36 children of Chai Gadda, Dhanbad. They formed a social group PEHAL to provide education to poor and needy. Some initiatives taken by PEHAL are; 1. Sponsoring the school fees of 71 students from the slums of Dhanbad, 2. Sponsoring the tuition fee for IIT JEE preparation for a girl whose father is not alive, 3. Coordinated with HELLO WEB of Mozilla Firefox and provided Web Literacy to more than 4500 students from Government schools of Dhanbad, 4. Started PEHAL Schools where students learn through internet, 5. Running smart classes in 17 slums of Dhanbad. (Contact: <https://www.facebook.com/pehalanitiaives/>)



शिक्षा आधार, तकनीक दे रही धार

इंजीनियरिंग व सीए के छात्रों का संगठन ले रहा शुग्गी-झोपड़ी के बच्चों के लिए स्मार्ट क्लास

सुशिक्षित समाज

अभिनव कुमार, उदयभक्त

अभिनव ने बताया कि इन बच्चों को शिक्षा प्रदान करने की आवश्यकता है। इन बच्चों को शिक्षा प्रदान करने की आवश्यकता है। इन बच्चों को शिक्षा प्रदान करने की आवश्यकता है।

शुशिक्षित समाज

अभिनव ने बताया कि इन बच्चों को शिक्षा प्रदान करने की आवश्यकता है। इन बच्चों को शिक्षा प्रदान करने की आवश्यकता है। इन बच्चों को शिक्षा प्रदान करने की आवश्यकता है।





Subhash Garg, University of Roorkee alumnus and Yoga Therapist & Teacher organised Yoga Workshop and Classes for Stress Management and wellness at University of Texas Arlington and DFW Hindu Temple, Dallas 17-20 September 2017. It was attended by large spectrum of Students, Faculty and Staff.

Manoj P. Goel, B.E. (Mech) Gold Medalist 1981 based in San Francisco, USA is so much attached to his Alma Mater that he got custom license plate 'ROORKEE' for his car. He co-founded IIT Roorkee Heritage Foundation in the USA 10 years ago and played a lead role in facilitating 1-year long all expenses paid internship for IITR students in US companies. Besides the industry internships, IITRHF also runs these programs: Summer research internship at US universities, Business Plan competition, Entrepreneur mentoring, Guest lectures by alumni on IITR campus, and 50+ Annual Excellence Awards. He was awarded 2015 IITR Distinguished Alumni award



ALUMNI ACHIEVEMENT

SHARAD KUMAR JAIN BE (Civil) University of Roorkee 1980, M.Tech (Hydraulics and Water Resources) IIT Kanpur, Ph.D University of Roorkee 1990. R & D and teaching experience of more than 35 years in the field of hydrology and water resources. Research interests include Surface Water Hydrology, Water Resources Planning and Management, Impact of Climate Change, Application of Remote Sensing & GIS, and ANNs Visited USA, Japan, Denmark and UK for long term foreign assignments. Authored 4 books, 35 book chapters and 230 research papers. **Has been appointed Director of National Institute of Hydrology in July 2017.**



SANJIV SINGH a chemical engineer from University of Roorkee joined Indian Oil in 1981. He took over as Chairman, Indian Oil Corporation Ltd. In June 2017. Concurrently, he is also Chairman of Chennai Petroleum Corporation Ltd. and Hindustan Urvarak and Rasayan Ltd. He played a key role in the setting up, commissioning and



stabilisation of two of Indian Oil's biggest green field refineries at Panipat and Paradip. The commissioning of Indian Oil's 11th refinery at Paradip in early 2016, is his benchmark contribution to the Indian refining sector. A champion of clean and green fuels, Mr. Singh ensured on-schedule rollout of BS-IV fuels across the country in April 2017 and has now set a frenetic pace for Indian Oil refineries to meet the tough deadline of introducing BS-VI grade green fuels in the country by April 2020. Mr. Singh is widely travelled in India and abroad and has presented papers in several important national and international forums.

DINESH MOHAN, MSc 1990 and PhD in 1995 IITR, Professor, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, is elected Fellow of the Royal Society of Chemistry (FRSC) for his contributions to the chemical sciences. For the last three years he is listed a Thompson Reuters Highly Cited Researchers. Awarded the Scopus Young Scientist Award 2007 by Elsevier and Hiyoshi Environmental Award 2009 by Hiyoshi Corporation Japan. He is recently conferred with adjunct Professor at Chemistry Department, Mississippi State University, USA and University of Southern Queensland Australia.

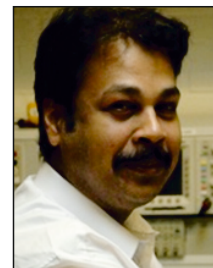


PUNIT MISRA, BE Electrical 1992 UOR has been the Chief Executive Officer of Broadcast at Zee Entertainment Enterprises Limited since August 2016. He served as Vice President of Sales and Customer Development Global RTM, TT and CDIT and Executive Director at Hindustan Unilever Limited (HUL) from November 2014 to August 2016. He joined HUL as a Management Trainee in 1996 and has worked in leadership roles



across Customer Development, Brand Building, Brand Development and General management within HUL. He is seen presenting award to Aishwarya Rai Bacchan at zee cine awards 2017.

SANJEET DWIVEDI, ME (Electrical) IITR 1999, MSc (Innovation and Business) South Denmark University, PhD IIT Delhi 2006. Working as Senior R&D Control Engineer at Danfoss Drives A/S Denmark and Adjunct Professor at Department of Electrical Engineering, Curtin University, Perth, Australia. He received the 2017 9th Global Innovation Award of Danfoss MAN ON THE MOON.



DR VIKAS KUMAR, BE (Metallurgy) UOR 1980; MTech IIT Kanpur 1982; Ph.D IIT Madras 1995; Distinguished alumni IIT Roorkee. He joined Defence Metallurgical Research Laboratory, Hyderabad in 1982 and took over as Director on August 01, 2017. He has been visiting scientist for two years at Centre Des Materiaux, ENSMP, Paris, France and worked on development of advanced materials for aero engines. He has been responsible for setting up of various collaborative research programs within India with IITs and abroad such as US Air Force (AFRL), Indo-Russian and Indo-Canadian projects. He is recipient of SAIL Gold Medal, NRDC Award, United Nation's WIPO Gold Medal, DRDO Technology Group award and Agni award for Excellence in Self Reliance. He has published more than 100 papers



IITR CONVOCATION 2017

In the long history of this Institution the Annual Convocation 2017 was held on two consecutive days on 23 and 24 September 2017. The Chief Guest on first day was Shri A. S. Kiran Kumar, Padma Shri, Chairman, ISRO and Secretary, Department of Space and 1140 degrees were awarded to UG students. The Chief Guest on second day



was Professor Surendra Prasad, Chairman National Accreditation Board and a former Director of IIT Delhi and 1013 PG and PhD degree were awarded. With two day convocation the parents of degree recipients were accommodated in the hall itself instead of requesting to see the Convocation through a live webcast as in previous years. The degree recipients dress from traditional gown, hood and cap was also Indianised to White Kurta, Black Pant and coloured Uttariya (a stole). The problem of heat in the convocation hall during September had been a cause of worry for few years. The installation of two large size noiseless fans, with 4 meter sweep, and hanging high along the central line has brought welcome relief to the audience.



EXECUTIVE COMMITTEE 2017-18

Position	Name	Passing Year	E-mail	Mobile
Working President	Prof A.K. Chaturvedi	Director	director@iitr.ac.in, akc@iitr.ac.in	09936016161
President	B.K. Chaturvedi	BE 1969	bkchaturvedi@gmail.com	09811111248
Vice-President	Ashok K. Gupta	BE 1971	akgd30@gmail.com	09411100380
Secretary	Rahul Dev Garg	BE 1985	garg_fce@iitr.ac.in	09412954222
Jt. Secretary	Dinesh Singh Pawar	BE 1993	dsp.uor@gmail.com	09837363638
Treadurer	N. K. Sharma	BE 1979	nksharma1979@yahoo.co.in	09837100680
Past Secretary	Achal.K. Mittal	BE 1986	achal_cbri@rediffmail.com	09412074408
DORA	B.R. Gurjar	Ex- officio	dora@iitr.ac.in	09927141416
Members	Y.P. Singh	BE 1991	ypfenesta@gmail.com	09958849700
	Vikas Goyal	BE 1992	goyal.vikas@hotmail.com	09837044984
	Vishnukant Saxena	BE 1990	saxenavishnukant@gmail.com	09811499700
	R.N. Dubey	BE 1974	dubeyfeq@iitr.ac.in	09897065672
	Manoj P. Goel	BE 1981	mgoel@yahoo.com	+14087995900
	Devesh Gupta	BE 1990	deveshmayank@rediffmail.com	09871725028
	Ankur Goyal	BE 1989	ankur295@hotmail.com	09582894802
	Satyendra Mittal	ME 1988	satyendramittal@gmail.com	09415074237
	Ashutosh K. Agarwal	BArch 1986	ashutosh.kr.agarwal@gmail.com	09350333222
	S. K. Mishra	PhD 1999	skm61fwt01@gmail.com	09411100753
	Sanjay Goel	BE 1979	sanjaygoel58.sg@gmail.com	09811828145
	Sudhir K. Mital	BE 1966	mitalsk@gmail.com	08279834103
	Bharat Bhushan Gupta	BE 1974	gupta244@gmail.com	09811322080
	Sanjay Kumar Jain	ME 1989	sanjay.nih@gmail.com	09897035156
	Salil Arya	PGD1986	salilarya@gmail.com	09412218404
Nominated Members	S.P.Gupta	ME 1973	spgfee@gmail.com	09837074284
	Arun Kumar	BE 1979	aheciitr.ak@gmail.com	09837016919
	Devendra P. Saroj	BTech 2002	d.saroj@surrey.ac.uk	09004074062
	Anirudh Yadav	BTech 2015	anirudhyadav.iitr@gmail.com	09045842764
	Vidhu Saxena	BArch. 2006	viyydu@gmail.com	09840337813
All President / secretary of Local Chapter are ex-officio members				

OBITUARY

DR PABTRA RAJBONSHI, Associate Professor, NIT Silchar, died in a road accident in Guwahati on 17 September 2017. He obtained his M. Tech from IITR in 2001 and Ph.D. from IITK. He is survived by his wife and two daughters. *The Alumni Association expresses its heartfelt condolences and pray that the departed soul rest in peace and his family has courage to bear the irreparable loss.*

Members are requested to update their contact information and get their Alumni Cards - *Hony Secretary*

Editors:

Er S.K. Mital, BE(C) 1966; **Dr R.D. Garg**, BE(C) 1989

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