

July 2018

# Vaan

The Voice of IITRAAA



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**HERITAGE MITRA SCHEME TO BRING CHANGE IN GUJARAT (TOI)**

In line with Central Government's Heritage Mitra Scheme, the Archeology & Museum Department of Gujarat Government is going ahead with outsourcing the conservation and maintenance of monuments to private entities. It will invite corporate houses, farming and milk cooperative societies, and interested individuals to adopt heritage sites on the Gujarat list of archaeological monuments. However it will exclude monuments protected by the Archaeological Survey of India(ASI), as they are outside the state's ambit. There are around 362 monuments under the jurisdiction of the State Archaeology Department but the Department does not have enough personnel and resources to manage them.

**SARKHEJ ROZA**

The Government of India's 'Heritage Mitra' scheme entrusts heritage sites/ monuments and other tourist sites to private sector companies, public sector companies, and individuals for the development of amenities. Interested parties become 'Monument Mitras' and adopt the sites. The mitras will also look after the operations and the maintenance of the amenities.

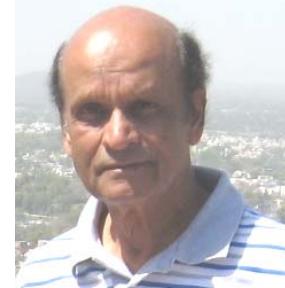
The Department revealed that for now the Government gives grants to Village Panchayats or local bodies to manage heritage sites but it has not yielded significant results. The scheme may yield win-win situation for the companies looking for CSR engagement. The companies get publicity while the government can conserve heritage sites without spending any money.

**RANI KI WAV**

**EDITOR'S DESK**

Dear VAANI Readers,

There have been lots of Gala activities of IITRAAA during the quarter. Unlike Roorkee days however, we had no dress code and were free to put on whatever looked good on us. Yet the people looked beautiful and smart. Visit of the Space Museum of SAC/ISRO in Ahmedabad was a big attraction among the family members, specially children. Inquisitiveness of the spouses and children was at its peak. We also had a long awaited family get together followed with election of new EC. You will love to have glimpse of the colourful event in the IITRAA news.



This year's AN Khosla Memorial Lecture was on India's first Bullet Train, delivered by Sri Achal Khare, MD- NHSRCL and an IITR alumnus of 1981 batch. The lecture was quite scintillating reflecting the real challenges involved in developing the same. The sound of VAANI has reverberated at IITRAA-Nepal. In response they have also shared their news bulletin 'IITRAAN' with us. We agreed to have continued mutual exchange of mouth pieces with them in future.

With the release of this issue I wish all the readers happy forthcoming festivals 'Onam, Navratri, Dussera, Diwali, Sawan festivals, Rakshabandhan and many more I might have missed.'

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**All previous issues of VAANI are available on our website [www.iitraaa.com](http://www.iitraaa.com)**

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## IITRAAA -NEWS

### EC MEETS TO DECIDE THE PROGRAMMES FOR MAY & JUNE'2018

The EC-2016-18 met on April 8 to chalk out the activities during May/June 2018. As the term of the existing EC was coming to close, a new EC was to be elected and Dr A N Khosla Memorial Lecture was also to be scheduled. It was decided to have the general body meeting on May 6'2018 to elect the new EC accompanied with a fun filled get-together. The GBM was to be preceded by a family visit of Vikram Sarabhai Space Exhibition in the premises of SAC/ISRO in Ahmedabad.

It was also decided to invite Dr Achal Khare, a graduate of BE (Civil) 1981 batch of IITR to deliver a popular lecture on Bullet Train in the offing between Ahmedabad and Mumbai. Dr Khare is the CEO of National High Speed Rail Corporation.

As usual the meeting concluded with dinner and customary ice-cream for the children.



### GENERAL BODY MEETING AND FAMILY GET-TOGETHER

The annual general body meeting cum family get-together was organized on May 6'2018 including the pre-meeting visit to the Vikram Sarabhai Space Exhibition (VSSE) in SAC/ISRO premises. The exhibition displayed the models some of them active ones, of the launch vehicles & satellites developed, launched and operationalised by ISRO. Working principles were explained by the guides. Models of Chandra Yan and Mangal Yan were the special attraction there. The guide narrated in detail, the space applications using satellites, developed by ISRO and in vogue in India. A detailed audiovisual presentation by the exhibition staff introduced the mysteries of deep space. It wouldn't be an exaggeration to say that the exhibition was a space thriller displaying the panorama of the Indian Space Activities and its achievements. One could be proud of ISRO. The added attraction



for the children and young family members was the space suit for astronauts wherein one can appear as an astronaut.

The space exhibition visit was followed by the GBM & family get-together in the community hall, Vikram Nagar, ISRO Housing colony. After the discussion on annual report and accounts, election for the new EC was conducted and as always the proposed were not elected but selected.

Our outgoing secretary Dr Susheel Kumar Singh has been to Antarctica for a scientific mission of Govt of India. He shared his experiences and excitements during his visit to Antarctica for about three months. He narrated the horrific experience when his ship hit a rock and got damaged and water started gushing in. Those moments were filled with anxiety till he along with other the team members were safely shifted to shore with the help of a helicopter. It was a miraculous escape and adventure in the icy sea water.

Finally family get-together with fun filled program and dinner gave the finishing touch to the GBM. The new committee took the charge on the stage and every one of them narrated their resolve to do more and something new. Our ex president Dr Sudhir Jain, Director IITGn was re-elected as President, as no body wanted him to leave the post. He obliged. In fact he is continuing as president for the fourth time. The list of the new committee is given on the next page.

## हमारी गौरवशाली नारी शक्ति



**GSLV-III,  
1:5 MODEL**



## NEW EXECUTIVE COMMITTEE 2018-20

SN	POST	NAME	BATCH	EMAIL
1	President	Dr. Sudhir K Jain	BE-CIVIL-1979	skjain.iitk@gmail.com
2	Vice President	Shri. Deepak Mathur	BE-EC-1983	mathur_d@hotmail.com
3	Secretary	Shri Himanshu Thushiar	M.Tech (E.Sc)-2002	hes.iitr@gmail.com
4	Jt Secretary	Dr. Mukesh Ranjan	M.Sc (Physics)-1999	ranjanm_nbd@yahoo.com
5	treasure	Shri Manish Seth	BE (Chemical)-1991	manishseth@gspc.in
6	Jt Treasurer	Shri Jitendra Sharma	M.Tech-CS-2002	planetjit@gmail.com
7	Member	Shri R.P Dhiman	M.Sc-Chem-1979	dhiman_rp2000@yahoo.co.in
8	Member	Shri S.K.Garg	BE-CIVIL-1986	gargsk14@gmail.com
9	Member	Dr. Vikrant Jain	MTech-Apl Geo-1995	vikrantgeo@gmail.com
10	Member	Dr Arvind K Singh	M.Sc-Phy-1994	aks5371@gmail.com
11	Member	Dr. Vikas Lakhera	PhD-Mech-2009	vikas.lakhera@gmail.com

SN	POST	NAME	BATCH	EMAIL
12	Member	Shri Anup Chandra	BE-Met-1975.	anup.chandra@yahoo.com
13	Member	Shri Anil Joshi		anil.j@gspc.in
14	Member	Shri Desh Raj	BE-EC-1974	deshraj_family@yahoo.com

As a standing arrangement all the past presidents are also permanently ex officio members of the EC.

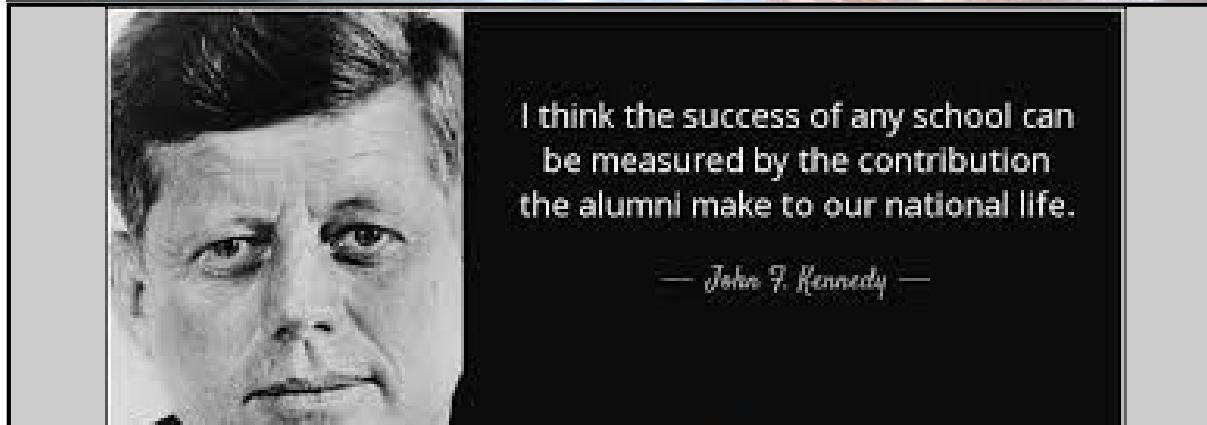
### DR A N KHOSLA LECTURE ON BULLET TRAIN

The second Dr AN Khosla Memorial lecture was delivered by Sri Achal Khare, The Managing Director, National High Speed Rail Corporation Ltd (NHSRCL), on May 12'2018. The topic was India's first Bullet train between Ahmedabad-Mumbai, slated to be operational sometime in 2023. Sri Khare is an IITR alumnus and belongs to BE-Civil-1981 batch. He presented detailed project plan highlighting the challenges involved in technology, safety, and development & handling legal aspects. The salient features of the project as told by him, are as follows



- Total length of the route –508 Km
- Majority of the track is elevated except near Mumbai where it will be underground. In Maharashtra The underground tunnel will be about 26 Km. The longest tunnel will be 21 Km long , of which 7 Km will be under sea.
- Total 12 stations (8 in Gujarat and 4 in Maharashtra)
- Travel time– 2.07 hrs with limited stops, 2.58 hrs with all stops
- Cost of the project– Rs108000 cores
- Speed 320 Km/hr
- Fitted with disaster prevention safety system
- **DGPS** (Differential Global Positioning System) technology used to establish horizontal control points, and Digital Leveling to accurately fix the reduced level with respect to Mean sea level
- LiDAR data used for design of alignment, Right Of Way, identification of project affected plots/ structures etc.
- Aerodynamic design of the train , needed for high speed trains.
- Noise mitigation

- Special lurch control system for passenger's comfort
- Provision of special fail safe system
- Automatic train control system



## Dr D V SINGH, ONE OF THE IITR STALWART LEFT THE WORLD FOR EVER

With profound grief we regret to inform about the sad demise of one of our elite Alumnus Dr D V Singh who was the last V C of UOR and the first Director IIT Roorkee. He left for his heavenly abode on July 20'2018 in Delhi. He was the Roorkee pass out of BE (Mech) 1956 batch.

Born on 11 December 1934 in UP, he graduated in science from Allahabad University in 1953 and then in mechanical engineering in 1956 and civil engineering in civil in 1957 from the then University of Roorkee (UOR). He joined thereafter UOR as lecturer in 1958. Subsequently, he went to US on sabbatical to complete his master's degree (MS) in 1962 and PhD in 1964 at the University of Wisconsin. On his return to India, he resumed his service at UOR and served as a Professor, Head of the Department of Mechanical and Industrial Engineering, Dean of Academics and Dean of Research and Industrial Liaison till 1990. He left UOR in 1996 to join the Central Road Research Institute as its Director. He was also made the Vice Chairman of the All India Council for Technical Education (AICTE). He joined back UOR in 2000 as the Vice Chancellor and oversaw the transformation of UOR into IITR. He became the first Director of IITR in 2001 and superannuated from service in the same year.



Dr Singh's researches were focused on 'Single Track vehicles' and later on vehicle Dynamics & tire pavement interaction resulting in improvement of scooter design. He shifted his focus on tribology later. Dr Singh sat in the board of directors of the International Road Federation from 1991 to 1994 and as a founder member & Director of the World Interchange Network. He was the secretary of the Association of Academies & Societies of Sciences in Asia (AASSA) during 1993–94 and was a member of the Science and Engineering Council of the Department of Science and Technology during 1983–88 and 2000–03. He was associated with several global and national bodies as a member; governing body of the Technology Information, Forecasting and Assessment Council (1997–99), committees of World Road Association, Central Board of Railway Research (1986–89, 1998–2000), National Accreditation Board for Testing and Calibration laboratories (1998–2000), Committee on Auto-Fuel Policy (2001–02) and Apex Committee on Road Construction and Transportation Equipment (2001–04).

He bagged number of awards to his credit in recognition to his work in varied fields. . The important ones are Shanti Swarup Bhatnagar Award, Mechanical Engineering Design Award (IEI), Eminent Engineering Personality Award, The Indian National Academy of Engineering Award, and Lifetime Achievement Award of Tribology Society of India . He was also honored by IITR as Distinguished Alumnus.

He was regular recipient of our VAANI –The Voice of IITRAAA, a quarterly e-magazine. He seems to have developed strong liking for the same. Once he sent his appreciation on the Jan'2018 issue and the same was included in the Reader's reflection in the April:2018 issue. However I am not able to stop myself to reproduce the same as under:

*"Thank you for mailing to me the January 2018 issue of VAANI. I immensely enjoyed reading it. I compliment you for bringing out VAANI. It is a wonderful Newsletter."*

*I am a 1956 Alumnus of the University of Roorkee. When I was in the First Year in 1953, our seniors told us very emphatically that the Roorkee University was a*

*Premier Institution of the East". It was true. More than half the history of earlier engineering education in India is the history of "Rurki" College and its successor Colleges. I have many nostalgic memories of our Almamater. When I entered the University in September 1953, the British traditions of its predecessor Thomason College of Engineering were very much there. The first Vice Chancellor, Dr. C.A.Hart, an Englishman, had just retired and there was no Vice Chancellor. Mr. M.C.Bijawat was the Pro-Vice Chancellor and in his supreme humility never projected himself as the Acting Vice Chancellor. He was a very decent and simple person. Mr. A.N.Khosla came as the first Indian Vice Chancellor in 1954.*

The Arch you remember in the NCC Ground was designed by Dr. O.P.Jain and was intended to be one panel of a Hanger, which was to be built as structurally integrated arches. The University ran out of funds and the Hanger was never completed. The loan Arch survived a few years until one night in a storm it collapsed due to wind load. Luckily no one was around and no body was injured. The Microwave Tower of the Electrical (now Electronics) Department was also designed by Dr. O.P.Jain. It still stands firm and is an iconic structure but little else. Reminiscences of my younger fellow Alumni are very precious to me in my dusk years. I will be very happy to receive VAANI. My best wishes to VAANI to sustain its excellent quality and to go from strength to strength. Best wishes

**D. V. Singh-Mech 1956 "**

Dr Singh visited Ahmedabad in 2001 and attended one of IITRAAA EC meeting wherein he explained the process of UOR conversion into IIT. He was for a great appreciation for IITRAAA's buoyancy and the contribution it made during rehabilitation of the earth quake affected population. On behalf of IITRAAA, VAANI conveys its deep condolences to the bereaved family and pray that his soul rest in peace.

#### THE FIRST CABINET OF INDIAN GOVERNMENT –AUG 15'1947

**Pandit Jawaharlal Nehru:** Prime Minister with additional charge of External Affairs, Commonwealth Relations and Science research

**Sardar Vallabhai Patel:** Home, Information and Broadcasting

**Dr Rajendra Prasad:** Food and agriculture

**Maulana abul kalam Azad:** Education

**Dr John Matthai:** railways and Transport

**Sardar Baldev Singh:** Defence

**Mr Jagjivan Ram:** Labour

**Mr C H Bhabha :** Commerce

**Mr Rafi Ahmed Kidwai:** Communication

**Rajkumari Amrit Kaur:** health

**Dr B R Ambedkar:** Law

**Mr R K Shankhmukham Chetty:** Finance

**Dr Syama Prasad Mookerji:** Industries and Supplies

**Mr N V Gadgil:** Works, Mines and power

**IITRAA AND IIT ROORKEE NEWS (from the websites and news items)****IITRAA - NEPAL (IITRAAN)**

IITRAAN seems to have become interactive with IITRAA chapters. It has brought its News Letter May 2018 and shared it with the readers of VAANI. The chapter came into existence in 1996, and has about 300 members. The bulletin highlights the history of a clock presented to Roorkee College of Engineering by its Prime Minister Sri Chandra Shamsher JBR, prior to first world war. What you see today on the main building dome is the same clock. The bulletin also highlighted the role played by IIT Roorkee in developing the technical man power for Nepal to support its various national projects. IITRAAN sent the e-copy of their May'2018 bulletin to Editor-VAANI. As desired by them, the same was forwarded to all IITRAAA members for their introductory information. We appreciate the gesture of IITRAAN to connect IITRAAA with them. This is a very good and welcome beginning for us to share our experiences. On behalf of IITRAAA, the Editor-IITRAAA wishes IITRAAN a great future and fruitful communication in future.

**GLIMPSE OF IITR ACHIEVEMENTS**

It is quite heartening to note that IITR is making dent in developing various technologies needed today for the country. This is the real expectation our country has from a Technological Institution of repute. We may say that it is the beginning of 'Develop in India and Make in India' campaign. As learnt from its website the IITR has made great strides in developing numerous technologies few of these being inflatable helmet for bike riders, drones for railways, making tiles and bricks out of waste plastic and many more alike. For curiosity sake the readers would also like to know what is lined up further till it reaches to the actual users. Hence will it not be apt to touch also upon the salient in-built aspect like reliability & ruggedness analysis of the design, technology transfer, user trials, productionisation etc. At present, the news on technological development is uploaded as published in news papers/magazines. It will be more satisfying to have such information directly loaded by the Institute or its Departments on its website. As alumni of IITR, we would prefer to have such information made available directly from the institute.

It is also learnt from the website news, that the undergraduate project work, in some cases, is taken up with the Institutes of repute like ISRO. In fact the idea of inflatable helmet bred in ISRO while doing the undergraduate project. This gives an idea that IITR take more aggressive role to net more such projects with other Institutions of repute also. It may, perhaps, help in improving the Institute rating also

*A man is not poor without a rupee, but he is really poor without a dream and ambition*  
Swami Vivekanand

*I contend that for a nation to try to tax itself into prosperity is like a man standing in a bucket and trying to lift himself up by the handle.*

Winston Churchill

*The Government is like a baby's alimentary canal, with a happy appetite at one end and no responsibility at the other*

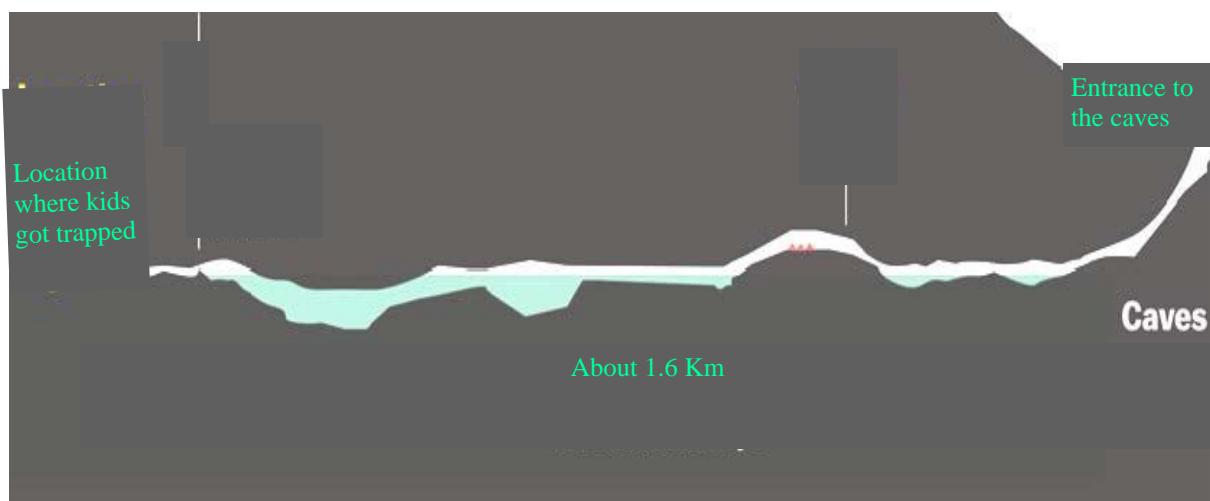
Ronald Reagan

## THE NEWS THAT ECHOED (from various websites)

### ESCAPE FROM THE CAVES (Google search & media)

It looked like mission impossible. 12 boys of a football team football players along with their coach went on an excursion to the Thailand's most mysterious cave complex 'Tham Luang Caves' on June 23'2018. On their way back to the mouth of entrance of the cave wherefrom they started their adventure, they were lost in the cave and got trapped inside. After about 10 days when they did not return, a team of the best divers of the world lead by a British Diver was sent to the caves in search of the missing boys and the coach. The team could succeed to locate the boys and the coach all with grim and frail faces, sitting on a rock. Their parents and well wishers were all happy to learn that they were alive. Yet their rescue from the caves was still a far cry. The caves had number of low lying portions which were filled full with rain water. These water logged portions blocked the passage of return journey. There was no other way than to dive through the water logged in the lower portions of the caves. But none of the boys and the coach knew diving and swimming. Hence a team of skilled international divers worked out a strategy to carry out the rescue operation. A length of about 1.6 km was to be covered one way with number of bottle necks on way filled with water. The strategy of rescue was targeted to rescue the non divers & swimmers. The attempt was risky and chances of success were dim. However the high confidence of the divers and mercy of GOD made the rescue operation successful.

It took 5 hrs for divers to reach the trapped persons, one way. During that period the coach taught the boys to meditate and remain calm which kept them alive till rescue team reached them. The exact details of the rescue operations are not available. However speculations float around that the boys were ultimately given medication and put on stretchers with mask and oxygen to breath, before they were passed from diver-to-diver through the water filled cave. Whatever may be the way for rescue it was commendable and an example of exemplary courage shown by the team of diver rescuers.



### **AIRPORT AUTHORITY OF INDIA (AAI) TO IMPLEMENT INDIGENOUSLY DEVELOPED GAGAN SYSTEM FOR ITS AIRCRAFT NAVIGATION (yahoo website)**

AAI, having decided to implement aircraft navigation using indigenously developed aircraft navigation system and conducted an international workshop for utilising GAGAN. AAI has offered GAGAN to SAARC and Southeast Asian countries in order to allow them to reap the benefits of such an advanced navigation system. GAGAN (GPS aided Geo Augmented Navigation) has been developed by ISRO in association with AAI using its IRNSS satellite constellation. The initiative was in line with the Prime Minister Narendra Modi's objective of using technology as a means of development and co-operation with neighbor and South Asian countries. Leading aircraft and receiver manufacturers such as Airbus, Bombardier, BELL helicopters, Honeywell, Rockwell Collins and Accord also represented in the conference. They provided information to the SAARC and Southeast Asian nations regarding readiness of solutions for GAGAN enablement in various types of aircraft.

The Chairman, AAI stated that the system had been designed with adequate capabilities to be able to cater to the needs of the Asia Pacific Region. He hoped that the countries across the region collaborate to operationalize Asia's SBAS in a time bound manner. India is amongst only four nations in the world to develop and deploy this indigenous technology that removes the signal errors from GNSS (Global Navigation Satellite System) and provides highly precise navigation signals to the users. Other countries/regions that use such a system are the United States of America, the European Union and Japan. Implementing an SBAS system is a long-term investment for India, which will go a long way in bringing operational efficiencies to the civil aviation environment as well as non-aviation sectors like developing Smart Cities, intelligent transportation, town-planning, maritime, highways, railways, surveying, security, telecom, geodesy and personal usage that require precise navigation, positioning and timing signals.

### **ISRO PLANS TO DEVELOP SEMI CRYOGENIC ENGINE (TOI website)**

The second stage of the India's heaviest rocket GSLV-III is powered by earth storable liquid fuels. It's third stage is indigenously developed cryogenic engine using liquid hydrogen as fuel and liquid oxygen as oxidizer. The first stage comprise of two jumbo solid fuel propelled engines mounted as strap-on motors. With this configuration it has capability to launch a 4 ton satellite into a geostationary transfer orbit. For launching heavier satellites weighing about 5 tons, India has to hire launch from abroad. To acquire 5 ton class satellite launch capability from India itself, it needs to enhance the capability of GSLV-III. For this, ISRO has planned to replace the second stage liquid engine with semi cryogenic engine. In semi cryogenic engine the fuel is earth storable liquids like kerosene and oxidizer as liquid oxygen. Once developed, India could launch 5 ton class of satellites from its own land.

### **NASA TO HAVE A CLOSER LOOK AT THE SUN- A PROBE LAUNCHED (TOI website)**

NASA has launched a probe to have a close look at the corona of the sun. The probe was named as 'Parker Solar Probe' and launched on Aug 12'2018 by Delta IV heavy lift launcher. The probe is designed to plunge into the Sun's mysterious atmosphere, known as the corona, coming within 3.83 million miles (6.16 million kilometres) of its surface during a seven-year mission. The corona gives rise to the solar wind, a continuous flow of charged particles that permeates the solar system. Unpredictable solar winds cause disturbances in our planet's magnetic field and can play havoc with communications technology on Earth. NASA hopes the findings will enable scientists to

forecast changes in Earth's space environment. The probe is protected by an ultra-powerful heat shield designed to keep its instruments at a tolerable 85 degrees Fahrenheit (29 degrees Celsius) even as the spacecraft faces temperatures reaching nearly 2,500 degrees Fahrenheit (1,370 degrees Celsius) at its closest pass.

### **KOREAN FIRM DISCOVERS \$130 BILLION IN GOLD FROM SUNKEN RUSSIAN BATTLESHIP** (yahoo website)

The Shinil Group, a South Korea treasure-hunting company, has discovered gold worth \$130 billion in the form of gold bars and coins, from the wreckage of the Russian cruiser Dmitrii Donskoi which was damaged and sunk into the sea in 0519 during war between Japan and Russia.

Shinil Group has provided the battleship's picture as proof to discover its hull near the island of Ulleungdo. The company contemplates to return half of the catch to Russia and invest 10% for tourism development in the island of Ulleungdo.

#### **INTOLERANCE ON ROADS**

- Overtaking from left with very close distance, almost stalling the overtaken.
- Overtaking on turning
- Honking on stagnant traffic
- Night driving in the city with head lights set on ' High' despite good illumination of roads
- Parking vehicle unevenly and behind parked vehicles
- Driving close to a vehicle in front, hardly giving any chance to avoid collision in case the brake is applied by the vehicle in the front.
- Night driving without head lights
- Keeping the vehicle in left lane on cross roads though one has to turn right, creating traffic jam and vice versa.
- Jumping the zebra crossings even when the red lights are on
- Not allowing pedestrians to cross the road on zebra crossings
- Driving on the wrong side
- Justifying wrong actions and quarrelling despite making mistake
- Driving while talking on phone
- Stopping vehicle on mid road and spitting.
- Throwing empty bottles/sachets from the vehicle on road
- Heavy vehicles moving in wrong lanes on highways

One can add many more examples of road intolerance, may be specific to a city. Do you think it is only the Government responsible for this type of behavior of our nationals? Government can make law, regulations and commission enforcement organizations. But to give rules the shape on road it is the character of the society, temperament of the riders and ignorance of rules of the license holding riders which makes difference in successful implementation of the system. I have come across the license holders who are ignorant of some of the rules and controls in the vehicle. Majority of them know only the control of steering, brake, clutch and accelerator. It means our licensing system evaluation is not comprehensive. There is a dire need to overhaul the driving license system. May be, if felt necessary, we should consider to subcontract the licensing responsibility to a private organization at par with passport system. In order to screen out the non genuine riders, all the license holders could be given a comprehensive screening test to weed out the half trained license holders. Even the school curriculum in schools may add a special chapter on road discipline in order to inculcate national character on road. Intolerance as given in media may be too insignificant in comparison to intolerance on roads.

## READER'S REFLECTIONS ON APRIL'2018 ISSUE

First of all my thanks for IITRAAA's thoughtfulness and care about its past members and making them to feel that they are always connected with their extended family in Ahmedabad. I congratulate the entire editorial team to bring out another excellent addition of VAANI which has now become an addiction for me. As soon as I received it I go through it from first page to the last without any break. My best wishes to all IITRAAA members and the families. Regards

Shubhendu Banerjee

True compliments to you and your team. Your sustained efforts to keep the vibrancy of the ITRAA Ahmedabad chapter is commendable. A small suggestion if you can appoint a deputy editor who can be of help to you and at the same time plan for succession planning too. With good wishes and regards

Dr Velchamy

Great. Thanks to Shri Vijay Kumar Jee for having eagle's eyes to discover such Alumni group in Nepal. Let us attempt to establish regular contact by way of mutual visits. Best wishes,

Dr S B Sharma

My compliments for the April issue of VAANI. It is very informative. Over the years VAANI has grown from strength to strength. Best wishes for continued success.

Harsh Gupta, DA

Exciting! Wonderful! Invigorating! Please keep up the effort. Vaani is an admirable creation that may keep us (the aging/diminishing group of IITRA) in touch with the accomplishments/activities of the new and upcoming Roorkee stalwarts. Best wishes and regards:

Anand Prakash (1957-civil), Illinois , USA

### RESPONSE FROM IITRAA-NEPAL (IITRAAN)

Dear Vijaya Kumar: Thank you for sharing VAANI. Please find the recent issue of IITRAAN News Bulletin for the circulation to your network. I have added in CC Er. Umesh Malla, current President & Er. Alek Poudel, General Secretary, IITRAAN, to include in your future circulation. Cheers

Shashi Bhattarai, Senior Member of IITRAAN

Dear Sashi Sir: Thanks for sharing IITRAAN newsletter to other members of IITR. It would be great if you could share the VAANI as well. Regards

Alek Poudel, Gen Secretary IITRAAN

Thank you Alek! I have shared mail from Mr. Vijai Kumar to IITRAAN group mail. As there is some downloading problem, I will also be sharing VAANI to the TTIRAAN Group mail directly. Cheers

Shashi Bhattarai

Dear Sri Vijai Kumarji: Many thanks for your mail. It is really good to be connected with IITRAs. Please communicate with Alek Poudel <[alekpoudel@gmail.com](mailto:alekpoudel@gmail.com)>, he will be giving details of current Executive Committee Members. You are always welcome to keep me in the email loop in future. Cheers

Shashi Bhattarai,