The Indian Institute of Technology Bombay celebrated its annual Alumni Day on December 24, 2017. The function started with a warm welcome by Prof. Ravi Sinha, Dean (Alumni & Corporate Relations), IIT Bombay. Prof. Devang Khakhar, Director, IIT Bombay gave the visiting alumni an overview of the Institute and its growth over the years.

In his address, Prof. Khakhar informed how the Institute is growing from strength to strength. “Today, IIT Bombay is the leading academic Institution in the field of research and development. IIT Bombay alumni have made significant contributions towards the growth of the Institute. Our aspiration is to see IIT Bombay among the top ranks of technical universities in the world and we need continued support from our alumni to realize this dream,” he said.

As a part of the function, Distinguished Service Awards were bestowed on two alumni members this year, who besides being achievers in their own chosen domains, have contributed in a notable and sustained manner to the progress of the Institute. The award, instituted in the year 1999, consists of a certificate, memento and an Uttaria.
This year, the award was conferred on Mr. Milind Mhaiskar and Mr. Saket Gadia.

The first batch of 1962 completed their 55 years of graduation and were felicitated by the Director on the occasion.

The Silver Jubilee Batch (class of 1992) has pledged a sum of Rs. 9.4 crore towards the Legacy Project. A Legacy Project is a project adopted by the batch celebrating its Silver Jubilee anniversary, for the betterment of the Institute and of the people associated with it, as a way of giving back to the alma mater and to leave behind a lasting legacy and remembrance of their silver jubilee reunion.

The batch of 1991 has raised a record amount of pledges for the Legacy Project. They would be looking at deploying these funds in a number of projects largely related to student well being, including scholarship programs for deserving students, upgradation of study facilities across the hostels, supporting the ongoing institute efforts, student counselling amongst other things.

Ms. Ashwin Rathod from the Decennial Batch (Class of 2007) also spoke during the Alumni Day function. Several fun-filled activities were held during the alumni meet which included start talks, departmental tours, hostel visits, cultural performances, student-alumni interactions, musical evenings and so on.
Minister Of State For HRD Dr. Satya Pal Singh Visits IIT Bombay

Hon’ble Minister of State for Human Resource Development, Water Resources, River Development and Ganga Rejuvenation Dr. Satya Pal Singh visited Indian Institute of Technology Bombay for the first time on December 2, 2017. He was welcomed by Prof. Devang Khakhar, Director, IIT Bombay.

During his interaction with media, he assured that the government is devoted to promoting the quality of higher education by investing in infrastructure and faculty, promoting academic reforms, improving governance and institutional restructuring to create world-class institutions.

Highly impressed with the recent achievements and progress made at IIT Bombay, Dr. Singh acknowledged that institutes of higher education need funds and promised all possible help. "Under the new project launched by Ministry of Human Resource Development (MHRD), we hope to create ‘Institutes of Eminence’ and IIT Bombay too has applied for the same. The government is committed to the holistic development of Indian education system," he said.

Congratulating IIT Bombay for obtaining 9th position in Quacquarelli Symonds BRICS ranking, Dr. Singh informed that excellent work is being done in various fields of engineering and nanotechnology in IIT Bombay. Prof. Devang Khakhar was accompanied by Prof. A. K. Suresh, Deputy Director (Academic and Infrastructural Affairs), Prof. P. M. Mujumdar, Deputy Director (Finance and External Affairs) and other Institute officials including Deans and the Registrar.

Dr. Singh spoke about the new Education Policy for the country to be framed through an inclusive, participatory and holistic approach. “The Government of India would like to bring out a National Education Policy to meet the changing dynamics of the population’s requirement with regards to quality education, innovation and research, aiming to make India a knowledge superpower by equipping its students with the necessary skills and knowledge and to eliminate the shortage of manpower in science, technology, academics and industry,” he informed.

Stressing that the exercise was going through wide consultations, he said, "It will ensure that the quality of education improves and research and innovation are facilitated. MPs and MLAs of all parties, educationists and teachers, those who run schools, parents and grandparents — all have offered lakhs of suggestions. Their inputs are being considered for this policy. The draft will be discussed and promptly implemented." Dr. Singh visited the Industrial Design Centre and interacted with students.
Mood Indigo 2017: The Carnival Fest

The 47th edition of Mood Indigo started off on December 22, 2017 in pompous colours with hordes of students thronging the venues at IIT Bombay with gusto. With infectious enthusiasm and bright spirits ostensible in the air, Asia’s largest college cultural fest left a mark on everyone.

The theme of this year was La Fête Carnaval, or quite simply, Carnival-fest. The campus was decorated with multicolored streamers, balloons and installations. Throughout the campus and at the ‘Themed Arena’, students were seen soaking in the spirit of celebration as they delightfully engaged in carnival-themed activities-cum-events.

The overall event marked the successful end of the 47th edition of Mood Indigo, IIT Bombay’s annual cultural extravaganza. Few glimpses of the mega event are here:

Bollywood star Mr. Akshay Kumar attended the fest to promote his upcoming film Pad Man. Mr. R. Balki, the director of the film and Mr. A. Muruganatham, the real-life inspiration behind the film, also accompanied him.

A panel discussion between renowned actor Mr. Manoj Bajpayee and film director Mr. Neeraj Pandey was moderated by Ms. Kubbra Sait. The event ended on a cheerful note. Fans had interesting interaction with the guests.

Eloquence panel discussion featuring Infosys co-founder Mr. N. R. Narayana Murthy along with former Union Minister for Finance Mr. P. Chidambaram was moderated by Ms. Faye D’Souza, the Editor of Mirror Now.

The audience at Humorfest was in splits as Ms. Mallika Dua of Tinder Aunty fame took over the stage and engaged the audience in roar-inducing humour.
A session hosted by noted comedian Mr. Cyrus Broacha was attended by political personalities Ms. Shazia Ilmi and Mr. Sanjay Jha from the BJP and the Congress parties respectively. After a welcome filled with echoing applause, Ilmi and Jha proceeded to talk on politics. They asked students to make informed choices and work on issues together.

The Kutle Khan Project is a Rajasthani folk act led by the multitalented and multi-instrumentalist Mr. Kutle Khan. His seductive yet complex melodies left the audience with the whiff of desert and the flavour of Rajasthan.

In a panel discussion with moderator Atika Farooqui, multi-faceted Bollywood personality Mr. Madhur Bhandarkar shared the prospects of a career in film and media. He then proceeded to talk about his experiences with production houses, and of the film situation then versus now. In another session, film director Rakeysh Omprakash Mehra spoke about his experiences while making superhits like Rang De Basanti.

The Mime Time finals saw the contestants rise up to the challenge of telling stories without uttering a word.

The fest ended with fireworks as people thronged the Gymkhana ground for Popular Nite, the fourth and the biggest of the Pro Nites, that was headlined by Mr. Amit Trivedi, the versatile singer, composer and lyricist.
Techfest 2017 Sets A Benchmark

The 21st edition of Techfest, Asia’s largest science and technology festival, was held from December 29 to 31, 2017. It was a hugely successful festival which attracted a large crowd and impressed one and all with its grandeur. It has always been an ideal platform for each and every tech-savvy person, irrespective of whether the person wishes to display his expertise or gain from the intricate details about the technology on display.

This year, Techfest achieved a record footfall of 1,75,000 with an outreach to 2500 national colleges and 500 international ones. In the process, Techfest also garnered 5,00,000 likes on its Facebook page and retained the tag of most-liked college fest of India. The themes of the festival are digitalization, sustainability and biotechnology. Technological advancement in these segments need to be stressed upon considering the current nation’s scenario and the world at large.

The fest comprised of a series of lectures, summits and competitions at the Institute campus as well as exhibitions by students from institutes around the world. Techconnect exhibited the development and research activities of IIT Bombay’s students. The festival witnessed exhibitions, war of robots, sessions, talks on advancement of science and technology, gaming competitions and a display of various creations and experiments.

Mr. Manohar Parrikar, former Defence Minister and the present Chief Minister of Goa, inaugurated the International and DRDO exhibitions. He spoke on ‘Make in India in defence sector and the significance of engineers in establishing smart cities’. He attributed his political finesse to the man-handling skills he honed at IIT Bombay.

Mr. Jayant Sinha, Minister of State for Civil Aviation, delivered a speech about the ‘Opportunities and challenges faced by the youth in Indian economy’. He strongly appealed for a brake on the brain-drain and pressed that Powai, IIT Bombay is the place rather than Silicon Valley to derive solutions.

The annual science and technology festival witnessed the advancements in robotics as the first humanoid robot Sophia attended the fest along with other robots from different countries of the world. The robot Sophia based on Artificial Intelligence (AI) interacted with attendees.
As part of most distinguished segment of the Lecture Series, Bitcoin and Blockchain expert Mr. Patrick Dai, co-founder of Qtum, CTO at Blise group, Director of Mei link China delivered a keynote on Bitcoin Technologies. Lecture Series is a platform for both the brilliant and the blooming to interact with unparalleled personalities and to bridge the gap between industry, academia and students.

Mr. Juan Pablo, Illusionist, performed during the event.

In the exhibition, the Moon Rover from Hungary was displayed. It is a prototype by Team Puli to be launched in Atlas 5 on the moon.

NAO robot was displayed during exhibition. It is a humanoid robot from Japan, developed with an aim of educational, enjoyment and old-age care.
IIT Bombay trounced all competition to emerge victorious at the 52nd Inter-IIT General Championship hosted by IIT Madras. The mega-event spanning over thirteen sports drew to a close on December 23, 2017, having witnessed participation by over 2500 athletes from 23 IITs across the country. The IIT Bombay contingent had taken an unassailable lead with a day to spare and went on to grab the men's General Championship and the women's Runners' Up trophy. Having amassed a mammoth 103 points, they were crowned overall champions ahead of IIT Madras and Kanpur.

The IIT Bombay athletics team had begun their relentless assault on the very first day and ended up clinching the gold medal in the men's category; but not before their star Pawan Dahiya gave record-breaking performances in the 100, 200 and 400m events to win the Best Player Award. Karunya Bhaskar, too managed to best the standing record in women's high jump. The women’s teams decimated all opposition, romping home with gold medals in lawn tennis and volleyball, and a hard-fought bronze in badminton, with contingent leader Dhruti Shah (tennis) and Ksiphra Naik (volleyball) emerging as the best players. Riding on exemplary performances by Karan Rawat (squash) and Ratan Kirti (table tennis), the men’s teams comprehensively won gold in squash and table tennis, silver in basketball and bronze in volleyball. Earlier an impressive show at the aquatics meet, with silver-medal finishes for both the men and women, had helped Bombay steal a march on their rivals.
Industrial Research and Consultancy Centre organised “National Education Day Programme” on November 13, 2017 to felicitate winners of Research awards 2016 and release of updated IIT Bombay research brochure ‘Glimpses of Research’. This brochure is a compilation of representative research work carried out by some of the Institute faculty members over a period of time.

Mr. Arun T. Ramchandani, Vice President, Defence (Guns, Missiles & Armoured Systems), Larsen & Toubro Limited was the chief guest on the occasion and the programme was chaired by Prof. Devang V. Khakhar, Director, IIT Bombay. The welcome address and a brief about the event was delivered by Prof. Petety V. Balaji, Dean (R&D).

Research awards for 2016 in five categories were conferred by the Chief guest to the selected faculty members in recognition of their outstanding research contributions.

Each award consisted of a citation and a cash prize of Rs. 50,000. In addition, the awardees were invited to submit a research proposal to IRCC for possible funding of up to Rs. 5,00,000. Details of the awards and award winners are given below:

i) **Research Publication Award**: This award was given for the ‘significant contribution to the research theme’:
- **Prof. Samir K. Maji**, Department of Biosciences and Bioengineering
- **Prof. Raghavan B. Sunoj**, Department of Chemistry
- **Prof. Deepankar Choudhury**, Department of Civil Engineering
- **Prof. Bikash Kumar Dey**, Department of Electrical Engineering
- **Prof. Dinesh Kabra**, Department of Physics

ii) **Impactful Research Award**: This award was given to Dean (Faculty Affairs) **Prof. Abhay Karandikar**, Department of Electrical Engineering, in recognition of research results which have had a tangible impact on practice through Gram Marg for Rural Broadband.

iii) **Research Dissemination Award**: This award was given in recognition of outstanding efforts to disseminate research through monographs, books, review chapters, review papers to:
- **Prof. Sambasivarao Kotha**, Prof. Ashoke Chandra Deb, Prof. Kakali Lahiri and Prof. Ethirajan Manivannan, Department of Chemistry
- **Prof. S. V. Kulkarni** and Prof. S. A. Khaparde, Department of Electrical Engineering

iv) **Early Research Achiever Award**: This award was given in recognition of research work done by young researchers who have already shown their potential for producing outstanding original work:
- **Prof. Anirban Banerjee**, Department of Biosciences and Bioengineering
- **Prof. Rajarshi Chakrabarti**, Department of Chemistry
- **Prof. Rajneesh Bhardwaj**, Department of Mechanical Engineering
- **Prof. Aftab Alam**, Department of Physics

v) **Prof. Krithi Ramamritham Award**: This award for creative research, started from this year, was instituted at IIT Bombay by Prof. Jayant Ramaswamy Haritsa, Indian Institute of Science, Bengaluru. This is awarded for highly creative and original research contribution made primarily at IIT Bombay by a faculty member in any engineering
The second edition of the inter IIT cultural meet was held in IIT Kanpur during December 29-30, 2017. With as many as 34 events spread across 7 genres in 2 formats and 18 competing institutes, the meet was the biggest platform for the best brains in India to show their creative talent. Being the current reigning champions, the preparation for the meet begun well in advance in IIT Bombay as the stakes were even higher this year. The trials for the meet started in September and went on till late October. Once the final contingent was made, preparations were in full swing as the students slogged off till late hours in the months of November and December with the title defence on their minds. The day of reckoning soon arrived on December 26, 2017 when the contingent finally embarked on their journey from the Western coast deep into the hinterlands of the country.

**On Day 1** of the meet, IIT Bombay had a good start, winning the duet dance competition, second in stand-up comedy and third in sci-tech quiz while also getting fifth position in solo singing and costume designing. **Day 2** proved to be even better as IIT Bombay clinched the pole position in group dance, second position in painting, third position in MELA quiz and duet singing, fourth position in sports quiz and fifth in live sketching. On the last day, the results of all the online and offline events were announced and IIT Bombay received first position in street art, online graphic design, 48 hour film making and short film making, second position in online photography and dance battle, third position in stage play, mono acting, turn coat debate, wordgames and online photo-story, fourth in parliamentary debate and photoshop.

The genre trophies film and photography, fine arts and dance went into the kitty of IIT Bombay. Overall IIT Bombay stood second. Keeping all stood the achievements and trophies aside, this meet was a great learning opportunity for the students and helped a lot in bringing people from various art forms together for a singular goal.
The latest Quacquarelli Symonds (QS) ranking of BRICS universities for 2018 brought a mixed bag of news for the country. BRICS stands for the emerging economies of Brazil, Russia, India, China and South Africa.

For the first time, IIT Bombay broke into the Top 10 list by bagging the ninth position (overall). IIT Bombay improved its rank by four positions from last year among institutes in BRICS nations. It was also the best-ranked among Indian universities.

Since its last appearance in 2016/17 in the rankings, the Institute has moved up 4 places. IIT Bombay’s overall score is 83.6 out of 100. The Institute has a score of 98.1 in academic reputation, 99.7 in employer reputation, 47.8 in faculty student ratio, 96.9 in staff with PhD, 53.6 in citations per paper, 95.4 in papers per faculty, 15.4 in international faculty and 7.6 in international students, all scores out of a maximum of 100. Among these ten parameters, Employer Reputation indicated the strongest one for IIT Bombay with a rank of 8 in BRICS.

On this significant achievement, Prof. Devang Khakhar, Director, IIT Bombay said, “The ranking is a reflection of the excellent progress being made by the Institute in its core areas of work: teaching and research. I am grateful for the sincere efforts of faculty, staff, students, alumni and well-wishers of the Institute”. The Institute performed among the top 3% in the QS BRICS Region University Rankings. Considering there are approximately 9,000 universities regionally, this made IIT Bombay one of the top 1.0% universities in BRICS rankings.

Indo German Dialogue on Youth Innovation

Indo-German Dialogue on Youth Innovation was organized at IIT Bombay on November 18, 2017 by IIT Bombay in collaboration with German House for Research and Innovation (DWHI) - New Delhi and Technical University Munich (TUM).

It was a half day event and featured a group of young researchers, leaders and entrepreneurs from India and Germany who presented their award winning and impactful work. The topics were slated to be multidisciplinary with a larger technical and social context to it. The event provided a platform for both the speakers and the audience, for a dialogue and exchange of ideas.
IIT Bombay student team and mentor Prof. Abhishek Gupta, Department of Mechanical Engineering, has won the world finals of this year’s American Society of Mechanical Engineers (ASME) Student Design Competition (SDC) held at Tampa, USA on November 5, 2017. This team had earlier won the Asia-Pacific leg of the competition en route to the finals.

ASME SDC provides a platform for engineering students to present solutions to a range of design problems ranging from everyday household tasks to groundbreaking space exploration. Each team is required to design, construct and operate a prototype meeting the requirements of an annually determined problem statement.

This year’s problem statement was a robot pentathlon i.e., building a remotely controlled device that competes in five events viz., lift, sprint, climb, throw and hit.

IIT Bombay team’s robot secured first place in sprint, lift and hit events, second place in the throw event and third place in the climb event. It was placed first overall in a pool of 8 best teams from Asia-Pacific, North America and South America. The robot of the U of Mississippi team was the runner-up.

The team operated under the umbrella of Mr. Umesh Mashruwala, Innovation Cell (UMIC). The team got most of the funding from IRCC. IITBHF funded a part of the travel cost.

Team members:

- Akash Kishore (Final year, ME), Team Leader
- Ravi Jain (Final year, ME)
- Anjan Kumar Patel (Final year, ME)
- Deepak (Third year, AE)
- Ayush (Third year, ME)
- Pravin (Second year, MEMS)
- Atharva (Second year, ChE)
- Ritesh (Second year, EE)
- Nishit (Second year, CE)
- Manik (Second year, ME)

Earlier this year, another team from UMIC had won the 25th Intelligent Ground Vehicle Competition (IGVC), Oakland University, Michigan, the biggest unmanned ground vehicle competition in the world for university students.

A UMIC team is now focusing on the ‘Mahindra Rise Driverless Car Challenge’ to be held soon. They are also targeting the International Aerial Robotics Challenge in August 2018.
IIT Bombay organized ‘Run for Unity’ in the campus on October 31, 2017 as part of Rashtriya Ekta Diwas or the national day for unity to commemorate the birth anniversary of Sardar Vallabhbhai Patel. One of the founding fathers of the Republic of India, popularly referred to as the Iron man of freedom struggle, he was known for protecting the unity of the country. On this occasion, people of all ages come together across the length and breadth of the country to participate in a ‘Run for Unity’.

The noble cause attached to the physical endeavour made it a grand event with a far-reaching impact. At IIT Bombay, staff and students turned up in large numbers to run and help foster the spirit of harmony and brotherhood. Participants took a determined oath to keep the unity of the motherland above all else, before the short timed run that lasted 30 minutes. Early in the morning, the picturesque campus came alive as the runners, imbued with a sense of purpose, ran amidst the greenery and the crisp breeze to celebrate the heritage of oneness left to us.

Also on this occasion, IIT Bombay staff pledged to dedicate themselves to securing the unity and integrity of the nation and to ensure national security of the country. This pledge was inspired with the vision and actions of Sardar Vallabhbhai Patel and his efforts for the unification of the country.
During Vigilance Awareness Week, observed from October 30 to November 4, 2017, “My Vision - Corruption Free India” was chosen as the theme for Vigilance Awareness Week this year by the Central Vigilance Commission. IIT Bombay staff took a pledge to promote probity in public life and to achieve corruption-free society on October 30 in the main building of the campus. IIT Bombay staff pledged to foster a culture of honesty and integrity and remain committed to good corporate governance-based transparency, accountability and fairness.

As a part of the Vigilance Awareness Week, the Vigilance Cell of the Institute organized an essay competition inviting participation of the students and employees of the Institute. The topic of the essay was “My Vision: Corruption Free India”. Prof. Nand Kishore, CVO of the Institute, delivered a lecture on “Vigilance Overview” on November 3, 2017 during Vigilance Awareness Week.

The winners of the Composition Competition:

**Students category:**
- First Prize: Mr. Subrat Kumar Patro (DD, ME)
- Second Prize: Ms. Anamika M P (MTech, CTARA)
- Third Prize: Ms. Sanika Juneja (Class 7, KV IIT Powai)

**Faculty and Staff category:**
- First prize: Ms. Vaishali Bahulkar, Hindi Cell
- Second prize: Prof. B. L. Tembe, Chemistry
- Third prize: Ms. Shivani Manchanda (Student Wellness Center) and Mr. Narendra Rajput (SJMSOM)

The winners of the “Cartoon Competition” conducted during Vigilance Awareness Week 2017:
- Prof. Arun Inamdar (CSRE)
- Mr. K. Sankara Rao (EE)
- Ms. Rajeshree Shinde (Chemistry),
- Mr. Santanu Dutta (IDC)
‘Avenues 2017’ Annual International Business Festival Celebration

‘Avenues’ is the annual International business festival organized by Shailesh J. Mehta School of Management, IIT Bombay. Alankar is the global leadership summit, where leaders share their success stories to motivate the young students.

The 2017 edition of Alankar, held from October 27 to 29, kickstarted with an interactive session with actor and producer Ms. Raveena Tandon. Her passion and humour seemed contagious. She inspired the students with her life choices, stories and her work in myriad fields. "It is time we stop sugar quoting," she said about making movies like Mitr that disturb and shake up the crowd. Pertinent issues such as rape, social stigma and deforestation were also addressed.

The actress spoke about the power of brain and how one can achieve if we don't give up.

Raveena Tandon filled the crowd with enthusiasm and made them believe that every person can make a difference, regardless of the resources they own. She further urged the students to start a chain, spread it around so that it makes a full circle.

Noted journalist Mr. Rajdeep Sardesai delivered a candid and awe-inspiring speech. He spoke about the evolution of journalism since the quieter age of newspaper reporting. He was sanguine about India’s aspirations and emphasized it as the driving factor behind success. A cricket enthusiast himself, Mr. Rajdeep Sardesai shared insightful analogies which have been an integral part of his life and also the theme of his new book.

He further emphasized on the capacity of people to overcome adversity. While imparting the audience about three kinds of happiness, he urged them to enjoy the happiness that emanates from grabbing the moment in the journey of life. He encouraged students to see people as individuals, pay less heed to issues which divide the society and start addressing the real problems of the society.

The second day of Avenues 2017 saw the organisers as well as students immersed in a series of events, fun activities and sports. Alankar, the Global Leadership Summit, started with a spirited session with the passionate and talented choreographer Terence Lewis. The session was dotted with anecdotes, stories and humour while emphasising on the path to sidestep comparison.

Terence advised the students to either do something very well or to leave it. He urged the students to be in touch with reality, explaining how it is pertinent to have a goal, breaking it down to small goals and adding a method to it. He left the audience with a thoughtful quote to help them make their choices, “If you can say no, then do it.”

The session concluded with a free-spirited dance of Terence Lewis with the rejuvenated audience.

Alankar session continued with the dedicated and determined Ms. Apurva Purohit, the President of Jagran Prakashan Ltd. that owns publications like Dainik Jagran, Mid-Day and Radio City. She explained how women, men and organization are three equal points of the triad of diversity. She further stressed on hard work and the 5Ps for success: Process, Purpose, Perseverance, Positivity and Personal Accountability.
SoULS (Solar Urja through Localisation for Sustainability), IIT Bombay organised a workshop for 400 students of Jawahar Navodaya Vidyalaya, Nizampur, Raigad, Maharashtra on November 4, 2017. With this workshop, SoULS aims to create awareness about solar energy among the most active growing members of the community.

India boasts of receiving ample sunlight throughout the year and can use this clean and sustainable source of energy in the day to day life. According to a recent report by International Energy Agency (IEA), India’s renewable energy capacities will more than double by 2022. The present Indian government is also working towards its target of installing 100 GW of solar power by 2022.

SoULS put together a day-long workshop at Navodaya School to train students from Class VI to XII students in technical testing and solar study lamp assembly.

“We want to take solar technology to the masses and create awareness about its use and advantages. With this workshop, we wanted to reach the young and growing community and thereby create student solar ambassadors. SoULS is working to set up a solar lab here. It will motivate students to put to use and understand the true potential of solar energy,” said Prof. Chetan Solanki, Energy Science Department, IIT Bombay and Principal Investigator, SoULS.

IIT Bombay will help set up a solar lab for students for the repair and maintenance, lab experiments and testing of solar products. Two equipments will be made available for the lab experiments — Solar PV training kit and Solar PV simulator. Teachers will be also be trained by experts on how to use the equipments.

“Solar lamp assembly workshop is a way to make the young minds aware about the importance of solar technology. However, it does not end here. We expect the students to make use of the solar lab facilities to conduct experiments. This is just a beginning,” said Prof. Jayendran Venkateswaran, Industrial Engineering and Operations Research, IIT Bombay and Principal Investigator, SoULS.

The students also received a certificate of participation from IIT Bombay for attending the workshop. “Such workshops will give a boost to the use of solar energy. If students use solar energy in their day-to-day lives, we will be able to witness a cut down in the electricity bill. The student solar ambassador can help spread the word about solar among others. Our students are very excited to know more about this clean energy,” said P.K. Narayanan, Principal, Jawahar Navodaya Vidyalaya, Raigad.

Research In Focus

Advanced Numerical Methods For Modeling Complex Physics On Supercomputers

For more than 2 millennia, science has progressed primarily by experimental observations and development of theories. These two methods work perfectly in conjunction with one another in developing our understanding of the physical world around us. In the past few decades, a third significant methodology employing powerful computers and computational science for simulations has greatly added to our scientific capability and understanding.

Computational science involves recreating or simulating the physical phenomena on interest using a combination of mathematical modelling and very fast arithmetic on modern computers. Let us take the example of the engineering problem of designing the wings of an aircraft, the optimal design being the one which gives the best performance under operating constraints.

Computational science, more specifically computational fluid dynamics in the case of this application, allows engineers to simulate the performance of an aircraft wing design on computers efficiently and reach the optimal design at much lower costs. This process known as numerical methods helps convert complex mathematical equations which represent the physics of the experiment into a set of arithmetic ones. These arithmetic equations then are solved by a computer. A typical home computer or laptop today can solve the equivalent of a few hundred billion additions, subtractions, multiplication or divisions in just one second. The fastest supercomputer in the world today can perform a mind boggling 93 million billion arithmetic operations in a second!

As computational science becomes more pervasive, more and more complex phenomena and problems are being simulated by researchers. Weather, coastal flooding from storm surges and tsunamis, flows in fuel injectors, biological phenomena like blood flow through arteries, protein formation, interaction of galaxies and stars etc., form just the tip of the iceberg for simulation capabilities. The increase in complexity of the problems demand a continual increase in the computing power required.

Today's modern supercomputers consist of several million processors which compute simultaneously. In a very crude sense they are essentially several million desktops / laptops put together through some smart engineering and then the problem to be solved is appropriately divided among these smaller computers which are the building blocks of the supercomputers. As problem sizes increase, the use of more of these building blocks is required and soon the ‘numerical method’, which enables the computers to use their fast arithmetic, starts hitting a wall of scalability. If a problem is divided into 100 equal parts and given to 100 different computers to solve one would expect the problem to be solved 100 times faster than a single computer calculating the whole problem by itself. In reality when the ‘numerical method’ divides the problem up, there are several overheads, one of those being communication, which do not permit the perfect linear scalability of the problem being solved 100 times faster on 100 computers. These overheads are characteristics of these ‘numerical methods’.

My research group is working on developing new methods which aim to greatly reduce overheads which enable simulating complex physics (not hundreds but rather millions of times faster), thus utilizing the maximum capabilities of the current fastest supercomputers in the world and also saturating any computing machine for the next couple of decades.

**Prof. S. Gopalakrishnan**
Department of Mechanical Engineering, sgopalak@iitb.ac.in
IIT Bombay and National Chiao Tung University (NCTU), Taiwan signed an agreement for joint supervised PhD during the visit of President Prof. Mau-Chung Frank Chang along with Senior Vice-President Prof. Edward Yi Chang to IIT Bombay on December 1, 2017. NCTU, Taiwan is providing scholarship for the co-supervised students.

Inauguration Of Gulmohar Garden Cafeteria At IIT Bombay

Gulmohar Garden Cafeteria was inaugurated by Prof. Devang Khakhar, Director, IIT Bombay on November 22, 2017 at IIT Bombay campus. Prof. B.V.S. Vishwnatham, Dean (Infrastructure Planning and Support), Prof. S.V. Kulkarni, Associate Dean (Infrastructure Planning and Support-II) and Mr. N. S. Dabholkar, Chief Manager, Hospitality were also present during the occasion.

Inauguration Of New Guest House And Rooftop Solar Panels

New Guest House Padma Vihar and rooftop solar panel above the Lecture Hall Complex was inaugurated at IIT Bombay on December 19, 2017 by the Director Prof. Devang Khakhar. Prof. A. K. Suresh, Deputy Director (Academic and Infrastructural Affairs), Prof. Prasanna Mujumdar, Deputy Director (Finance and External Affairs), Prof. B.V.S. Vishwanadham, Dean (Infrastructure Planning and Support), Prof. Ravi Sinha, Dean (Alumni and Corporate Relations), Prof. Soumyo Mukherji, Dean (Student Affairs), Prof. S.V. Kulkarni, Associate Dean (Infrastructure Planning and Support-II) and Dr. R. Premkumar (Registrar) also graced the occasion.
Lectures On Nobel Prizes 2017

Industrial Research & Consultancy Centre (IRCC), IIT Bombay, has been organising lectures on Nobel Prizes from 2009 onwards annually. The lecture series is called as “Aisa kya kiya in logo ne?”.

The lectures focussed on the significance of the work leading to the award of this coveted prize and are pitched at a level accessible to lay literate audience. Lectures on Nobel Prizes 2017 were organized on October 25, 2017 in the Institute. Prof. Petety V. Balaji, Dean (Research and Development) gave introductory remarks about the program. The following experts delivered lectures this year:

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<th>Category</th>
<th>Nobel Laureate (Prof.)</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Jacques Dubochet, Joachim Frank &amp; Richard Henderson</td>
<td>Prof. Prasenjit Bhaumik, Department of Biosciences and Bioengineering, IIT Bombay</td>
</tr>
<tr>
<td>Economics</td>
<td>Richard H. Thaler</td>
<td>Prof. Neha Gupta, Department of Humanities &amp; Social Sciences, IIT Bombay</td>
</tr>
<tr>
<td></td>
<td>(Sveriges Riksbank Prize)</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td>Kazuo Ishiguro</td>
<td>Prof. Sudha Shastri, Department of Humanities &amp; Social Sciences, IIT Bombay</td>
</tr>
<tr>
<td>Physics</td>
<td>Rainer Weiss, Barry C. Barish &amp; Kip S. Thorne</td>
<td>Prof. Archana Pai, Department of Physics, IIT Bombay</td>
</tr>
<tr>
<td>Physiology / Medicine</td>
<td>Jeffrey C. Hall, Michael Rosbash &amp; Michael W. Young</td>
<td>Dr. Amitabha Majumdar, National Centre for Cell Science, Pune</td>
</tr>
</tbody>
</table>

A large number of faculty members, students and staff members attended the programme. Prof. Anil M. Kulkarni, Associate Dean (R&D) delivered vote of thanks.

IIT Bombay Participates In FICCI Higher Education Summit

IIT Bombay participated in the Research and Development Exhibition organised by the Federation of Indian Chambers of Commerce and Industry (FICCI) in partnership with Ministry of Commerce and Industry, Government of India (GoI) in conjunction with the 13th FICCI Higher Education Summit 2017, a global conference and exhibition at the India Exposition Centre, Greater Noida, Delhi-NCR during November 9-11, 2017. The event was inaugurated by Mr. Sudhanshu Pandey, Joint Secretary, Ministry of Commerce and Industry, GoI. The theme for the summit was ‘Leapfrogging to Education 4.0: Student at the Core’. The event had around 150 exhibitors from top of the line Indian and foreign education Institutions. It attracted a large number of participants from India and abroad, more than 200 International delegates from about 65 countries, 120 universities, institutes and technical companies.

IIT Bombay exhibited general posters giving a glimpse of the research and development activities at IIT Bombay, academic programmes, industry interactions, tech transfers, etc.; posters on technologies developed in the Institute, and videos. Brochures like ‘R&D Highlights’, ‘Partner with Us’, ‘Academic Programs’, ‘Glimpses of Research’ and ‘Research Facilities’ were also distributed to visitors for information dissemination. The stall attracted an overwhelming response and the posters/brochures were very well received. IIT Bombay exhibition was organised by Dr. V. Arumugam, IRCC and his team members Ms. Rusheeda Rajamohan and Mr. Pradeep S. Hiwale.
Free and Open Source Software for Education (FOSSEE) organized SciPy India 2017 at IIT Bombay during November 29-30, 2017. The FOSSEE Project promotes the use of the FOSS tools to improve the quality of education and research. SciPy India conference aimed at providing opportunities to spread the use of the Python programming language in the Scientific Computing community in India. The conference objective was to combine education, engineering, and science with computing through the medium of Python. The conference featured a variety of workshops, invited talks, and paper presentations. Prof. Prabhu Ramchandran, Department of Aerospace Engineering, IIT Bombay, Co-Chair of Scipy India 2017 co-ordinated the event. The conference witnessed an informative talk by keynote speaker Dr. Nelle Varoquaux (Dept. of Statistics at UC Berkeley and a BIDS data science fellow). Dr. Ajith Kumar (RF & Electronics Lab, IUAC), invited speaker, also presented a talk.

An international workshop on “Modern Biophysical Tools and Techniques” was organized during December 11-15, 2017 by Department of Biosciences and Bioengineering in IIT Bombay. Students and early career researchers were main beneficiaries of the workshop. Prof. Ambarish Kunwar, Department of Bio-sciences and Bio-engineering was the convener of workshop.

The horizon of modern bio-sciences and bio-engineering has been rapidly expanding due to development of various new biophysical manipulation and measurement techniques. This served as an objective of the workshop.

It was partly supported by Biophysical Society (USA). The topics covered in the workshop included Fluorescence microscopy, Confocal microscopy, Super-resolution microscopy, Fluorescence Resonance Energy Transfer (FRET), Fluorescence-Activated Cell Sorting (FACS), Optical Tweezers, Bio-AFM, NMR and microfluidics.

International Conference on Information Systems Security (ICISS-2017) was held during December 16-20, 2017 at IIT Bombay. International Conference on Information Systems Security (ICISS), held annually in India, provides a forum for disseminating the latest research results in information and systems security.

The conference was an annual gathering of systems security researchers. This year’s 13th edition of the conference had 6 technical sessions themed around cryptography, privacy, identity, analysis and attacks on systems. The paper “The Challenge of Aadhaar” bagged this year's best-paper award. There were keynotes delivered by eminent personalities working in information security domain. Prof R.K. Shyamasundar (JC Bose National Fellow, Department of Computer Science and Engineering) presided over as general chair of this conference and Prof Virendra Singh (Dept of Electrical Engineering) organised the conference as program co-chair.

The conference was preceded by Applications of mathematics to cybersecurity and software safety (by Prof Suresh Kothari, Iowa State University), and Recent advances in access control and future directions (by Prof Shamik Sural, IIT Kharagpur).

As a part of conference, an advanced workshop on “Blockchain Technology” was co-ordinated by Prof. R.K. Shyamasundar, Dept. of Computer Science and Engineering and Prof. N.V Narendra Kumar (IDRBT Hyderabad).
“Yoga helps to calm the mind and then enjoy the state of happiness,” said Dr. Nagarathna Raghuram, the Chief Yoga Therapy Consultant and Dean of the Division of Yoga and Life Sciences at SVYASA Bangalore. She delivered a talk titled ‘Importance of YOGA in Modern Life’ at IIT Bombay on November 16, 2017. The talk was organized by the Yogastha Wellness Club, IIT Bombay.

In her talk, Dr. Nagarathna said that the origin of various diseases is our own mind i.e. the manomaya kosh. “The modern medical science has accepted this fact but is still to find a way to control the mind in order to control various diseases,” she said. She emphasized on the ancient science of Yoga, asserting its usefulness in calming the mind.

She compared the human mind with a drunk monkey, who is restless and wanders around. The human mind has a tendency to repent on past events or worry on the future. This wandering of the mind builds up stress, unhappiness, anxiousness, restlessness and anger. This increases negativity in a person. A trained mind, however, can enjoy the present. “The mind can be trained and brought into control by implementing proper breathing techniques (pranayama), postures (asanas), mantra chanting and meditation (dhyana),” she explained.

Dr. Nagarathna appraised the efforts of Mr. Chandra Pratap (Manager, Yogastha) and the Yogastha team for organizing various yoga camps and free yoga workshops in IIT Bombay throughout the year. She also congratulated Prof. Soumyo Mukherji (Dean Student Affairs), Prof. Ashish Pandey, SJM School of Management and Prof. E. P. Rao on their initiatives to spread awareness about Yoga in IIT Bombay campus.
Institute Colloquium / Lectures

Retd. Ambassador Suresh K. Goel, Indian Foreign Service (Retd.), Ministry of External Affairs (MEA) Former Director, General, ICCR delivered an Institute Distinguished Lecture on “UN Reforms: Myth or Reality” on November 3, 2017.

Dr. Amit Biswas, Executive Vice President, Integrated Product Development, Dr. Reddy’s Laboratories delivered an Institute Distinguished Lecture in memory of Prof. C.V. Seshadri on “Challenges and Opportunities for Chemical Engineers To Sustain the Global Impact of the Indian Pharmaceutical Industry” on November 23, 2017.

Prof. Graham MacGregor, Professor of Cardiovascular Medicine, Wolfson Institute of Preventive Medicine delivered an Institute Lecture on “Everyone worth their salt should know this!” on November 12, 2017.

Prof. Nobuhiro Tsuji, Professor, Kyoto University delivered a steel colloquium on “Ways to Fabricate Ultrafine Grained Steels” on December 11, 2017.
Department of Bioscience and Bioengineering

Prof. Anatoly Kolomeisky, Department of Chemistry, Department of Chemical and Biomolecular Engineering and Centre for Theoretical Biological Physics, Rice University, Houston, Texas gave a talk in a seminar on “How to Understand the Formation of Signaling Profiles in Biological Development” on November 7, 2017

Dr. Peter Banks, Scientific Director, BioTek Instruments Inc., USA gave a talk in a seminar on “Quantitative Microscopy of Fixed and Live Cells” on November 9, 2017

Dr. Kashyap Dave, Post-Doctoral Researcher, Karolinska Institutet, Stockholm, Sweden, gave a talk on “Delineating MYC enhancers in gene regulation and tumor development” on December 19, 2017

Department of Chemical Engineering

Dr. Amit Biswas, Executive Vice-President, Integrated Product Development, Dr. Reddy’s Laboratories gave a talk on “Particle Science & Engineering for Drug Delivery” on November 24, 2017

Dr. Abhinav Malasi, StudyFox, Luxembourg gave a talk in a seminar on “Symbiotic plasmonic nanoparticles” on November 28, 2017

Prof. Noshir Pesika, Tulane University, USA gave a talk in a seminar titled “Tuning Surface Forces and Interactions – from Mosquito Adhesion to Reversible Potential Dependent Friction” on November 30, 2017

Dr. Girish Rao, Shell Bitumen R&D Manager, Shell, Bangalore, gave a talk on “Innovation from the Refinery to the Road” on December 13, 2017

Department of Chemistry

Dr. Doron Naveh, Bar-Ilan University, Israel, gave a talk on “2D Materials Optoelectronics: From Graphene to Black Phosphorus” on December 7, 2017

Prof. Peter H. Seeberger, Director, Max-Planck Institute for Colloids and Interfaces, Potsdam, Germany, gave a talk on “Preventing and Fighting Infectious Diseases: Carbohydrate Vaccines and Flow Chemistry” on December 15, 2017

Department of Civil Engineering

Prof. Adam H. Sobel, Columbia University, USA, gave a talk on “Assessment of tropical cyclone risk, and application to Mumbai” on December 14, 2017

Department of Energy Science and Engineering

Dr. Debajit Palit, Senior Fellow & Associate Director, Rural Energy & Livelihood Division, the Energy & Resources Institute (TERI) gave a lecture on “Rural Electrification in India: The evolution and future models” on December 8, 2017

Department of Electrical Engineering

Prof. Vijay Vittal, Ira A. Fulton Chair Professor, Arizona State University gave a talk on “Arizona State University - Learn to Thrive” on November 27, 2017

Dr. Héctor J. De Los Santos, Distinguished Lecturer, IEEE, Electron Device Society gave a talk on “Theory of Nano-Electron-Fluidic Logic (NFL): A New DigitalElectronics Concept” on November 29, 2017

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Dr. Vaibhav Katewa, University of California, gave a talk on “Security and Privacy in Cyber-Physical Systems” on November 29, 2017

Prof. Anant Agarwal, Ohio State University, IEEE Fellow, gave a talk on “The Revolution in Wide Band Gap (WBG) Power Devices” on December 12, 2017

Prof. Karu Esselle, Distinguished Lecturer, IEEE Antenna and Propagation Society, gave a talk on “Leaky-wave antennas: from niche applications to mass market” on December 13, 2017

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Dr. Ujjwal Das, Institute of Energy Conversion (IEC), University of Delaware, gave a talk on “Advanced Si solar cells: fundamentals and manufacturing issues” on December 18, 2017

Dr. Victor Mukherjee, Postdoctoral Researcher, Weizmann Institute Of Science, gave a talk on “Dynamical control in quantum technologies” on December 19, 2017

Prof. Vincenzo Piuri, Universita degli Studi di Milano, Italy, gave a talk on “Dependable and Resilient Cloud Computing” on December 19, 2017

Prof. Vishal Misra, Columbia University, gave a talk on “Internet Economics: Competition and Cooperation” on December 20, 2017

Department of Humanities and Social Sciences

Dr. Sanam Roohi Reddy, delivered a talk on “Giving Back: Diaspora Philanthropy and the...
Dr. Simon Evnine, University of Miami, gave a talk in a seminar on “Internet Memes” on November 22, 2017

Dr. Nirupama Kulkarni, Research Director, CAFRAL, Research Department delivered a talk on “Creditor Rights and Allocative Distortions – Evidence from India” on December 4, 2017

Prof. Amlan Dasgupta, Jadavpur University, gave a talk on “Anecdote & Musical History” on December 15, 2017

Prof. Sathyajit Gubbi, University of Groningen, Netherlands, gave a talk on “Does Advisor Network Position Facilitate Cross-Border Acquisitions By Emerging Market Enterprises?” on December 21, 2017

Dr. Manish K. Mundra, Northwestern University gave a talk on Dramatic Effects of Nanoconfinement on “Thermophysical Properties of Thin and Ultrathin Polymer Films and 1D Patterned Polymer Nanostructures (Fundamental Research)” and “Sustainable Wire and Cable Technologies (Applied Research)” on December 4, 2017

Mr. Sanjay Sampath, Center for Thermal Spray Research, Stony Brook University, Stony Brook, NY delivered a talk on “Thermal Spray as an Additive/Layered Manufacturing Technology for Energy Related Applications” on December 28, 2017

Dr. Bithika Jain, ICTP-SAIFR gave a talk on “On the Validity of the Effective Potential and the Precision of Higgs Self Couplings” on November 27, 2017

Ms. Deepthi Gorthi, University of California, gave a lecture on “Building an FFT Correlator for the Hydrogen Epoch of Reionization Array” on November 29, 2017

Dr. Vincent Pohl, Freie Universitaet Berlin gave a lecture on “Electronic Motion in Molecular Systems: From the Hydrogen Molecular Ion to Nanostructures” on December 7, 2017

Prof. Manu Paranjape, Université De Montréal, Canada, gave a talk on “The Black Hole Graviton Laser Time Bomb” on December 18, 2017

Centre for Policy Studies

Dr. Ragunath Mashelkar, Director General, CSIR, gave a talk on “The Science Communication Dialogue for New India” on December 12, 2017

Centre of Studies in Resources Engineering (CSRE)

Prof. Yoshio Yamaguchi, Niigata University, Niigata, Japan delivered a talk on “Polarimetric Radar Remote Sensing” on November 24, 2017

Research Scholars Forum

A team consisting of Dr. Thomas Hesse, Deputy Secretary General & Ms. Diane Fischer (Dept. Sponsorship and Network Asia Division) from AVH Foundation, Germany visited IIT Bombay on November 21, 2017 and delivered a seminar on “New Opportunities for Post-Doctoral Fellowships for PhD students”
This year’s Hindi Utsav was grand and stressed upon the importance of Hindi and other regional languages. The two-day flagship event held on October 14-15, 2017 comprised of four events. The first event was Chhatri Kavi Sammelan, a poetry competition. Mohinder Pratap Singh, co-author of Dhoni: The Untold Story was the judge. It featured over 35 students. On the same day, a Kavi Sammelan featuring the likes of great Urdu Shayar Waseem Barelvi along with other poets like Madhyam Saxena, Aman Akshar and Abhay Singh was held. The second day started off with an interactive session with Sameer, a star lyricist of the 90s era. He has won three Filmfare awards and is a Guiness Book Record Holder. He shared his thoughts on the Bollywood industry and the music being composed nowadays. A stand-up comedy night with Akash Gaurav Singh and Piyush Sharma was also held. Overall, this year’s flagship event was a huge success.
Awards and Distinctions

Prof. A. K. Suresh, Department of Chemical Engineering, has been selected for CSIR-CSMCRI Chemcon Distinguished Speaker Award 2017 by the Indian Institute of Chemical Engineers (IIChE)

Prof. S. Bhargava, SJM School of Management, has been selected for the award of Outstanding Contribution to Education for 2017 by Silver Jubilee edition of B- School Affaire

Prof. Rajesh Gupta, Department of Energy Sciences and Engineering has received NDT Best Paper Award 2017 in Industrial applications

Prof. Abhay Karandikar, Department of Electrical Engineering, has been featured in a cover story “Architects of Digital India” came out in Voice and Data magazine of December 2017 issue

Prof. Shamik Sen, Department of Bioscience & Bioengineering, has been selected for the prestigious SwarnaJayanti Fellowship Award for the year 2016-17, in the field of Life Science

Prof. Saurabh Lodha, Department of Electrical Engineering, has been selected for the prestigious SwarnaJayanti Fellowship Award for the year 2016-17, in the field of Engineering Science

Prof. Suryendu Dutta, Department of Earth Sciences, has been selected for the prestigious SwarnaJayanti Fellowship Award for the year 2016-17, in the field of Earth and Atmospheric Sciences

Prof. Parinda Vasa, Department of Physics, has been awarded ‘B.M. Birla Science Prize’ and has been elected as a member to the ‘International Union of Pure and Applied Physics (IUPAP) Commission on Laser Physics and Photonics (C17)’ for the period 2018-2000

Prof. Ronita Bardhan, Centre for Urban Science and Engineering, has been given the world finals of this year’s ‘American Society of Mechanical Engineers (ASME)” best poster award at the “School on clean and renewable energy technologies via chemical route” jointly organised by I2CAM, University of California at Davis and JNCASR, Bengaluru between 27 Nov - 2nd Dec, 2017. The award carries a certificate and prize money of Rs. 4000

Publications

Prof Anirban Sen, Department of Physics and his group have co-authored a paper which has appeared in Nature Communications (with impact factor of 12+). This work is on certain self shaping material called colloidal membrane. Upon crystallisation the membrane buckles and forms a surface with tunable curvature and roughness. Furthermore, during crystallisation, the membrane shows interesting domain structure, which Prof. Sen has been able to model successfully using theory of liquid crystals

Prof. Mani Bhushan and Prof Chandra Venkataraman, Department of Chemical Engineering have co-authored the paper entitled “Aerosols cause intra-seasonal short-term suppression of Indian Monsoon rainfall,” and has has appeared in scientific reports (Nature Publishing Group).

Student News

The following awards were won by PhD students of Chemistry department, IIT Bombay. Mihir Kumar Jha won the best poster award at the “School on clean and renewable energy technologies via chemical route” jointly organised by I2CAM, University of California at Davis and JNCASR, Bengaluru between 27 Nov - 2nd Dec, 2017. The award carries a certificate and prize money of Rs. 4000

2. Sudeshna Mondal won the Nanoparx competition and was adjudged the best nano-based socially relevant and innovative project at the Bengaluru-India Nano 2017 held on 7 - 8th Dec, 2017. She received the award certificate and prize money of INR 50,000/-the award from Prof. A. K. Sood, IISc
Since 2010, more than 2000 kids have participated in Right to Education and Vision (REVA). It is now India’s largest event for underprivileged kids, with more than 3 cities of India hosting it every year. The event not only provides the stage for children to showcase their talent but also improves the leadership qualities amongst the volunteers.

This year REVA was organized at IIT Bombay on November 25-26, 2017. It witnessed the participation of students from various schools. Children enjoyed the two-day festival and attended workshops on clay modeling, waste management, painting, essay writing, sports and the cultural events. Talent showcased by children in this 2-day fest left everyone awestruck. The hard work they put in was indeed commendable. This year, they launched the Mentor-Mentee program. This will help establish a bond between students and children. One learning everyone took from this festival was, “While we try to teach our children all about life, our children teach us what life is all about”.

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**Notification**

**Prof. Suvarn Kulkarni**, Department of Chemistry has been appointed as Warden of Hostel No. 3 w.e.f. October 1, 2017

**Prof. Samir Maji**, Associate Professor, Department of Bioscience and Bioengineering has been appointed as Associate Warden w.e.f. October 1, 2017

**Prof. J. Adinarayana** has been appointed as the Head, Centre of Studies in Resources Engineering w.e.f. October 24, 2017

**Prof. Nagamani Jaya Ballia**, Assistant Professor, Department of Metallurgical Engineering and Materials Science has been appointed as the Associate Warden, Hostel No. 15 w.e.f. October 31, 2017

**Prof. K.G. Suresh** has been appointed as the Head, Department of Physics w.e.f. November 29, 2017

**Prof. T.L. Eldho** has been appointed as the Head, Department of Civil Engineering w.e.f. December 4, 2017

**Prof. D. Parthasarthy**, Department of Humanities and Social Sciences, has been appointed as Convener, Climate Studies (IDP) w.e.f. December 12, 2017
Appointments

Prof. Achintya Kumar Dutta, Department of Chemistry, has been appointed as Assistant Professor w.e.f. December 4, 2017

Prof. Amrita Bhattacharya, Department of Metallurgical Engineering and Materials Science, has been appointed as Assistant Professor w.e.f. December 7, 2017

Prof. Krishnendu Haldar, Department of Aerospace Engineering, has been appointed as Assistant Professor w.e.f. December 15, 2017

Retirements on November 30, 2017

Ms. Sivakami Sundaresan, Assistant Registrar, Dean R&D Office, has retired after 34 years of service

Ms. Soumini Soman, Assistant Registrar, Accounts Section, has retired after 34 years of service

Mr. M. S. Krishnakumar, Jr. Technical Supdt., Administration, has retired after 35 years of service

Ms. Darly Paul, Jr. Supdt., Accounts Section, has retired after 41 years of service

Mr. Prashant M. Gupte, Jr. Supdt., Estate Office, has retired after 24 years of service

Mr. Dilip T. Hadkar, Jr. Technical Supdt., Department of Aerospace Engineering, has retired after 30 years of service

Mr. Deepak P. Bhandare, Sr. Helper, Materials Management Division, has retired after 36 years of service

Ms. Dhondabai D. Nikalje, Cleaner, Public Health Office, has retired after 30 years of service

Mr. P. V. Ranade, Jr. Technical Supdt., Printing Press retired voluntarily on 30.11.2017 (F/N)

Retirements on December 31, 2017

Ms. Surekha A. Uthale, Superintendent, Accounts Section, has retired after 35 years of service

Mr. Chandrashekar V. Jakka, Sr. Mechanic, Department of Mechanical Engineering, has retired after 32 years of service

Mr. Chandrakant B. Mahadeshwar, Sr. Messenger, Publications & Public Relations, has retired after 34 years of service

Mr. Surendra D. Pol, Messenger (Gr.I), Administration Section, has retired after 26 years of service

Mr. Madhukar S. Dodave, Helper, Administration Section, has retired after 38 years of service
The “Train 10,000 Teachers” (T10KT) project implemented jointly by IIT Bombay and IIT Kharagpur has been awarded the “Digital India Excellence Award 2017” in the category “Education” by the Pan-IIM World Management Conference. Prof. D. B. Phatak, Department of Computer Science and Engineering, is the Professor In-Charge of this MHRD-funded project. This project will positively impact the education sector in the country.

The award was presented by the Hon’ble Minister for Human Resource Development Mr. Prakash Javadekar at a function in December 2017 at IIM Lucknow.

In the Wilderness

Photo Credit:
by Neha Bhargava,
PhD Student,
Department of Electrical Engineering

Salt’n Pepper
by Prof. Arun Inamdar

"...Back then, it used to stand for 'MOOD INDIGO'...now it’s nothing but 'MAJOR INCONVENIENCE' to all campusites..."
### CEP courses scheduled during January-February 2018

<table>
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<th>Starting Date</th>
<th>Duration</th>
<th>Course Name</th>
<th>Faculty</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-1-2018</td>
<td>7 days</td>
<td>Speciality Glazes And Colour Development</td>
<td>Prof. Raja Mohanty</td>
<td>Industrial Design Centre</td>
</tr>
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<td>Speciality Glazes And Colour Development</td>
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<td>Industrial Design Centre</td>
</tr>
<tr>
<td>5-2-2018</td>
<td>14 days</td>
<td>Operational Excellence</td>
<td>Prof. T T Niranjan</td>
<td>SJMSOM</td>
</tr>
<tr>
<td>7-2-2018</td>
<td>4 days</td>
<td>Strategies For Organizations Growth</td>
<td>Prof. Atanu Ghosh</td>
<td>SJMSOM</td>
</tr>
<tr>
<td>12-2-2018</td>
<td>5 days</td>
<td>Entrepreneurship, Innovation And Incubators</td>
<td>Prof. Milind D. Atrey</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>12-2-2018</td>
<td>5 days</td>
<td>E-Mobility And Innovations In Sheet Metal Forming</td>
<td>Prof. Prashant P. Date</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>12-2-2018</td>
<td>5 days</td>
<td>Design Methods For Creativity And Innovation In Product Development</td>
<td>Prof. Ravi Poovaiah</td>
<td>Industrial Design Centre</td>
</tr>
<tr>
<td>16-2-2018</td>
<td>3 days</td>
<td>Information Technology For Non-IT Managers</td>
<td>Prof. Rajendra M. Sonar</td>
<td>SJMSOM</td>
</tr>
<tr>
<td>18-2-2018</td>
<td>11 days</td>
<td>Advanced Executive Program In Management</td>
<td>Prof. Dinesh Sharma</td>
<td>SJMSOM</td>
</tr>
<tr>
<td>19-2-2018</td>
<td>5 days</td>
<td>Management Of Technology, Innovation And R&amp;D</td>
<td>Prof. Kirankumar S. Momaya</td>
<td>SJMSOM</td>
</tr>
<tr>
<td>24-2-2018</td>
<td>2 days</td>
<td>Knowledge Automation Using Knowledge- Based Systems</td>
<td>Prof. Rajendra M. Sonar</td>
<td>SJMSOM</td>
</tr>
<tr>
<td>26-2-2018</td>
<td>5 days</td>
<td>Introduction To Aircraft Flight Mechanics: Flightmech_18</td>
<td>Prof. Ashok Joshi</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>26-2-2018</td>
<td>2 days</td>
<td>3D Printing</td>
<td>Prof. K.P. Karunakaran</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>12-2-2018</td>
<td>5 days</td>
<td>Design Methods For Creativity And Innovation In Product Development</td>
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