



# Campus diary

January - February 2018

<http://www.iitb.ac.in/en/activities/campus-diary>

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

## IIT Bombay Celebrates 69<sup>th</sup> Republic Day With Enthusiasm



*Director Prof. Devang Khakhar addressing the gathering during Republic Day 2018*

To honour the constitution of India, which came into effect on January 26, 1950, IIT Bombay celebrated the 69th Republic Day of the nation at Gymkhana ground on January 26, 2018 with patriotic fervour. The constitution cemented India's status as a sovereign socialist secular democratic republic. The celebrations commenced with the customary unfurling of the national flag by Prof. Devang Khakhar, Director, IIT Bombay. IIT Guard of Honor from NCC gave the salute to the flag.

The celebrations witnessed impressive march past by the students of Campus School and Kendriya Vidyalaya, Security team, NCC cadets and guides.

The bands of Kendriya Vidyalaya and Campus School were main attraction of the march past. The KV band made the Institute proud as it was the only band to be selected from the Mumbai region to play in the KVS Nationals held in Pune recently.

As gratitude of appreciation, certificates, awards and cash prizes were distributed to meritorious staff, students of IIT Bombay, Campus School, Kendriya Vidyalaya, KG School and Aman Day Care Centre. Mr. Pawan Dahiya, best player of Inter IIT sports meet, and other achievers were felicitated during the event.

Director of IIT Bombay Prof. Devang Khakhar addressed the gathering and shared his best wishes with IIT Bombay community on the occasion of Republic Day.

The volunteers of NSS, IIT Bombay presented a skit 'Unusual ideas usually succeed,' emphasizing the importance of afforestation and its effect on the daily lives of a major part of the world population. It stressed that a single person can bring a noticeable change if he believes in his ideas and has the grit and determination to make them succeed.



A variety of cultural programmes mesmerised the audience. The students of Campus School presented a skit-cum-dance performance on national integration. Students of Kendriya Vidyalaya performed Lezim dance while a puppet show was presented by the children of Aman Day Care Centre.



*Glimpses of 'Republic Day celebration' in IIT Bombay*

## IIT Bombay Celebrates 56<sup>th</sup> Interim Convocation Ceremony



Dignitaries on dais during 56<sup>th</sup> Interim Convocation

The Indian Institute of Technology Bombay awarded degrees to 147 students at its 56<sup>th</sup> Interim Convocation on February 24, 2018. Total degrees awarded were 156, which include 116 PhD, 18 Dual Degrees which were awarded to 9 students and 22

E-MBA degrees. The joint E-MBA degrees, in association with Washington University in St. Louis (WUStL), were conferred by Dr. Mark Wrighton, Chancellor, Washington University in St. Louis.

The degrees were conferred upon those PhD students who have completed all the requirements during the period from August 2017 to January 2018 and have requested for the degree to be awarded earlier than the 56th Convocation. The function was presided by Mr. Dilip Shanghvi, Chairman of the Board of Governors, IIT Bombay and Prof. Devang V. Khakhar, Director, IIT Bombay among others.

There is a steady increase observed in the number of PhD students at IIT Bombay. While there were only 771 PhD students on roll in the academic year 2001-02, the number increased to 3022 in 2016-17. The number of PhD students at the Institute has increased to 3083 in 2017-18.

Chairman Mr. Dilip Shanghvi addressing the audience





*Graduating students taking pledge during 56<sup>th</sup> Interim Convocation*

In his address, Chairman of the Board of Governors, IIT Bombay Mr. Dilip Shangvi said, “*You are graduating from a top-ranking institute of the world. The time you have spent here has enriched you in many ways and now you are going to carve your way in the outside world. Wherever you go, I hope you will excel in life. I’m confident that the training and education you have received here will help you to face all the challenges outside.*”

Congratulating the graduating students, Director of IIT Bombay Prof. Devang Khakhar said, “*IIT Bombay continues to be most sought-after destination for undergraduate and postgraduate studies. I’m really happy to see you ready to start a new and exciting phase of life. We congratulate all the parents and acknowledge the sacrifices they have made. It is also a day of joy and satisfaction for my colleagues, faculties and staff.*”

While conferring the degrees upon the Executive MBA students, Chancellor of the Washington University in St. Louis Dr. Mark Wrighton said, “*I congratulate all the students and thank their families for supporting them. The world is facing many challenges of climate change and global warming. To address these challenges and overcome these problems, we will require highly-qualified leaders. All of you receiving degrees today will represent the next generation of leaders. I hope you will work to make this world a better place. We look forward to hearing about you and your achievements in the outside world.*”

Apart from the students and faculty members of the Institute, the ceremony was attended by the families and friends of the students.



*Director Prof. Devang Khakhar and Chancellor of the WUSTL Dr. Mark Wrighton conferring the degree to the student*

## IIT Bombay Celebrates Matribhasha Diwas

As per directives of Ministry of Human Resource Development, IIT Bombay celebrated Matribhasha Diwas (Mother Tongue Day) on February 22, 2018 to promote the use of mother tongue in the Institute. It was hosted by Hindi Cell of IIT Bombay. Various cultural associations performed classical dances, folk songs and cultural activities in seven Indian languages to demonstrate linguistic and cultural richness of India.

Prof. Eivind Kahrs, Sanskrit Department, University of Cambridge, UK and Visiting Professor, Humanities and Social Sciences, IIT Bombay was the Chief Guest of the function. He delivered the keynote address about language and communication.

Prof. Soumyo Mukherji, Dean (Student Affairs) spoke about Matribhasha (mother tongue) and its importance in building a strong nation.

During the event, Assam Cultural Association of IIT Bombay performed famous folk dance of Assam called Bihu. Utkal Cultural Association presented some very informative videos about Odisha and its vibrant culture. Similarly, Bengali Cultural Association's presentation demonstrated prosperity of colorful Bengali culture and language. Kairalee Kala Samiti performed Mohiniattam, classical dance of Kerala. Kannada Sangh and Marathi Sanskritik Mandal also performed during the event.

Prof. A. K. Suresh, Deputy Director (Academic and Infrastructural Affairs), Dr. R. Premkumar, Registrar, Prof. Malhar Kulkarni, Department of Humanities and Social Sciences and Ms. Vaishali Bahulkar, Hindi Officer also graced the occasion.



Prof. Eivind Kahrs being felicitated by Prof. A. K. Suresh and Prof. Malhar Kulkarni



*Glimpses of  
Matribhasha Diwas  
celebration*



## Conference On 'Management Of Intellectual Property And Strategy'

An international conference on '*Management of Intellectual Property and Strategy (MIPS) 2018*' was held during January 31 to February 3, 2018. The conference was jointly organised with support from DIPP, IPR Chair Project, IIT Bombay and NITIE, Mumbai at IIT Bombay. MIPS is designed to be biennial in order to create and maintain the quality and its high relevance in the years to come. It is themed as a platform to present, discuss and debate both the latest and fundamental issues of IP management in the global context.

The broad theme for MIPS is "IP for Development: The emerging paradigm". This year's focus was on "Best Practices for IP Management".

This year's fourth edition of the conference had two keynotes, two panel discussions on IP Portfolio Management: Best Practices and Creating investment ready IP and paper presentations themed around IP Strategy, IP and Technology Transfer, IP and Standards, IP Analytics.

There were keynotes delivered by Prof. Abhay Karandikar, Dean

(Faculty Affairs) and Professor in Department of Electrical Engineering and Dr. Raj Hirwani, Consultant, URDIP, CSIR. As part of the conference, 2 half-day pre-conference workshops were organized - one on 'Best Practices in IP Management' by K&S Partners and second on 'Patent Analytics and Intelligence' by URDIP, Gridlogics Technologies Pvt. Ltd. and NITIE. Prof. Karuna Jain, Director, NITIE was the conference chair and Prof. Shishir K. Jha was conference programme chair.

## NSS, IIT Bombay Reaches New Heights

National Service Scheme (NSS) of IIT Bombay participated in several new activities, while efficiently taking forward the existing social activities with a motive of providing maximum benefits to the underprivileged.

**BMC school visits:** Under Tarang, the sustainability initiative, a new chapter has been started by NSS. By visiting BMC schools, NSS members hope to promote sustainability among young minds at the grassroot level. NSS now conducts sessions in schools for students of class 7 to 10 to instill amongst them the importance of saving resources, reusing, recycling and incorporating

sustainable practices in day-to-day lives. NSS members visited four BMC schools on January 20, 2018. The sessions were fully interactive. Members demonstrated certain working models for better understanding of students.

**Biodiversity mapping:** White placards tied to large tree trunks is a common sight in IIT Bombay campus. NSS has now initiated phase 2 of 'Biodiversity mapping' project. In the first phase, members identified and marked trees along the 1.5 kms road in the student residential area. More than 400 trees of 70 different species were identified. This time, NSS members reused one-sided blank papers to make the placards and also included a QR code for visitors to know more about different species of trees around the campus.

**Jammu and Kashmir children visit IIT Bombay:** NSS members spent a day with students of class 11 from the state of Jammu and Kashmir. These children from government schools in Jammu and Kashmir visited IIT Bombay to learn more about the Institute and the academic ambience here. This was the first time they travelled beyond the state of Jammu and Kashmir. Apart from lab visits, they were briefed about various extra-curricular activities that the students of IIT Bombay participate in. NSS volunteers took them for a tour of the campus and introduced them to children engaged in NGOs.



NSS, IIT Bombay team with students of Jammu and Kashmir

## Director Conducts Bhoomi Pujan For Team Shunya's New House

Director Prof. Devang Khakhar conducted the bhoomi puja ceremony for Team Shunya's new house on February 14, 2018 at IIT Bombay. This unique house will run on solar energy using rooftop solar panels and will not use any electrical energy from the grid. This house would also generate and feed excess energy to the grid on a sunny day. Team Shunya is a group of passionate engineering students of IIT Bombay. SHUNYA stands for 'Sustainable Habitat for an Urbanizing Nation by its Young Aspirants'.

Prof. A.K. Suresh, Deputy Director (Academic and Infrastructural Affairs), Prof. Soumyo Mukherji, Dean (Student Affairs), Prof. P.V. Balaji, Dean (Research and Development), Prof. B.V.S. Vishwanatham, Dean (Infrastructure Planning and Support), Prof. D.B. Phatak, Department of Computer Science and Engineering also graced the occasion.



*Director Prof. Devang Khakhar conducting pujan of Team Shunya's new house*

## IIT Bombay Initiates Public Bicycle Sharing Service

Public bicycle sharing service called Zoomcar PEDL has been initiated in IIT Bombay campus on February 20, 2018 in the gracious presence of Prof. A. K. Suresh, Deputy Director (Academic and Infrastructure Affairs), Prof. P. M. Mujumdar, Deputy Director (Finance and External Affairs) and Prof. Soumyo Mukherji, Dean (Student Affairs). It is an endeavor to build an ecofriendly, clean and green campus.

Zoomcar PEDL is a technology-enabled smart bicycle sharing service by Zoomcar, which allows users to rent bicycles on hourly basis. It allows an user to rent cycles by the hour or day. These cycles come with real-time GPS tracking and solar battery charging.

To make this initiative successful, PEDL has brought over 150 cycles at 30 locations in the campus, including all hostels and academic blocks. This service would help residents commute within the campus.

Cycles can easily be booked for commuting by using Zoomcar mobile application. Once booking is done, the allotted cycle unlocks automatically and becomes available to the user. At the end of a ride, user needs to lock the cycle and end trip in the application.



*Prof. A. K. Suresh, Deputy Director (Academic and Infrastructure Affairs), Prof. P. M. Mujumdar, Deputy Director (Finance and External Affairs) and Prof. Soumyo Mukherji, Dean (Student Affairs) (R-L) on Zoomcar PEDL*

## Entrepreneurship Summit – A Zenith Of Innovation

The Entrepreneurship Cell of IIT Bombay hosted the 13<sup>th</sup> edition of its annual flagship event 'The Entrepreneurship Summit' with the theme "*A Zenith of Innovation*" during January 27-28, 2018.

Over the years, the E-Summit has gained a reputation for being the most significant student-organized entrepreneurial conclave in Asia. It is becoming bigger and better with every passing year. E-Summit 2018 witnessed a footfall of more than 25,000 startup enthusiasts, entrepreneurs, corporates, VCs and observed talks from seasoned entrepreneurs and professionals like Mr. Bhavish Aggarwal, CEO of Ola Cabs, Ms. Arundhati

Bhattacharya, Former Chairperson of SBI, Mr. Patrick Bet-David, CEO of PHP Agency Inc., Mr. Tanmay Bhatt, Founder of AIB, Mr. P. S. Jayakumar, Managing Director and CEO of Bank of Baroda, Mr. Shiv Khera, Author of 'You can Win' and business coach and many more.

Addressing budding entrepreneurs at the two-day IIT Bombay E-Summit, Mr. Venkatesh Shukla, general partner of Monta Vista Capital and President of TiE, Silicon Valley said, "*Despite the hype on technology startups, they only contribute 10% to the GDP of the US and 5% to employment. Food, agriculture and construction are completely unaffected by these technology giants. The inclusion of these sectors will enable tech startups to scale up to the next level. This is a great time to be an entrepreneur.*"



Renowned economist Dr. Subramanian Swamy during panel discussion



Mr. Michael Spiegelman, Vice President, Global Product Innovation, Netflix, addressing the gathering

Mr. Kunal Bahl, Co-founder and CEO of Snapdeal said, "*Entrepreneurs graduating from quality educational institutions must be fearless, keep things simple, be focused and enjoy life so that the ups and downs in business could be faced seamlessly.*"

E-Summit this year had organized more than 80 speaker sessions and panel discussions which attracted global and local entrepreneurs. There were workshops, competitions and networking sessions to bridge the gap between startups and investors and knit a strong entrepreneurial community in India.

## Abhyuday Organizes Annual Social Festival

The fifth edition of annual social festival Abhyuday, the social body of IIT Bombay, held during January 20-21, 2018 was a roaring success. Audience comprising students from the Institute as well as from other colleges of Mumbai, NGOs and corporates were sensitized, through the various programmes, to the challenges faced by many sections of the society. Dedicating this year's festival to the theme of 'Enabling Humanity with Human Rights', a series of events, exhibitions, lectures, workshops and competitions were organized to motivate the audience by highlighting the works of people who have made it big in the sector of social upliftment.

'Changemaker Series', one of the biggest events of the festival, highlighted the plight of children living on streets and their "unconscious" neglect by society. Deprivation of their basic rights and lack of equal access to opportunities was highlighted through a dialogue involving changemakers like Ms. Dia Mirza, actress and UN Environment Goodwill Ambassador, Ms. Prerna Langa, CEO of Yes Foundation and Ms. Kaveree Bamzai, Editor, India Today. This was a big step towards recognizing the identity of these children, amplifying their issues and rights.

Working to uplift the rights of women, the Women Empowerment Conclave focused on problems like discrimination, undermining etc. faced by women in society and at workplace. A sanitary pad-making workshop was held to highlight the stigma associated with sanitary napkins, a primary need for women. A Breast Cancer screening camp was also held. 100 women were screened free of cost to raise awareness of the need of cheaper and early Cancer detection methods.

Voicing its support for the LGBT community, Abhyuday organized Rainbow Diaries, an amalgamation of discourses by eminent personalities like Mr. Harish Iyer, Ms. Sonali Giani and Ms. Urmi Jadhav, who are actively involved in activism for LGBT rights. The speakers gave a talk on "Perspectives and Acceptance of the LGBT Identity in India". It was followed by a healthy and open discussion with the audience.

A Socio-X lecture series featuring Ms. Medha Patkar, Dr. Prakash Amte and Dr. Mandakini Amte served as an inspiration for the audience to put society before self and work for upliftment of downtrodden and marginalized people. Mr. Afroz Shah and Mr. Mahesh Sharma talked about the importance of contributing to the society and solving real problems of people by being a part of the community.

Declaring safer roads as an essential right, Drishya focused on using the passion of youth to bring about a change. It was supported by Mr. Sanjay Sasane, Deputy Commissioner of Transport and Mr. Amit Bhardwaj, Deputy Adviser, NITI Aayog. An Action Plan competition was also organized where participants came up with brilliant solutions for the social problems faced by India.

The last evening featured 'Concert for a Cause', a collaboration with NGO Swaradhar, providing platform to singers called as beggars on Mumbai locals. Performing alongside was Ms. Akriti Kakar, the famous Bollywood playback singer. These artists impressed the audience and showcased their wonderful abilities. The concert also acted as a fundraiser for the improvement of livelihood of these heroes while giving them a platform to showcase their skills.

The concerted efforts of a small group of concerned people from Abhyuday made all this possible. Abhyuday will strive towards creating a better society where human rights and equal access to opportunities is no longer demanded, it is a part of life.



Ms. Dia Mirza, actress and UN Environment Goodwill Ambassador, in panel discussion during 'Changemaker Series'



Bollywood playback singer Ms. Akriti Kakar performing during 'Concert for a Cause'

## Annual Policy Dialogue On 'Information Economy'

The Centre for Policy Studies organized its annual policy dialogue on the Information Economy on February 17, 2018. Annual policy dialogue on the Information Economy attempted to examine the set of working assumptions of information economy that are arguably decisively overturning the very nature of value creation.

The dialogue was organized in the four sessions:

- i) Framing of specific sectoral and policy related issues within an information economy
- ii) Historically and conceptually situating the emergence and impact of India's information economy
- iii) Importance of privacy, data surveillance within the context of Aadhar
- iv) Implications of global digital trade flows

Mr. Vibodh Parathasarathi, Centre for Culture Media and Governance, Jamia Millia Islamia, Mr. Jason Jackson, Urban Planning Centre, MIT Boston, Mr. Alpen Sheth, Department of Urban Studies and Planning, MIT Boston, Ms. Anita Gurumurthy, IT for Change, Ms. Sumandro Chattapadhyay, Centre for Internet and Society, Mr. Pranesh Prakash, Center for Internet and Society, Mr. Tanuj Bhojwani, iSpirit Foundation and Bharat Innovations Fund, Mr. Nitin Kashyap, Solutions Consultant, Ms. Usha Ramanathan, CSDS and Indian Law Institute, Prof. Abhijit Das, WTO Center, IIFT, Mr. Parminder Jeet Singh, IT for Change were eminent speakers during the dialogue. Prof. Sishir K Jha, SJM School of Management was the convener of the dialogue.



Prof. Satish B. Agnihotri, Head, Centre for Policy Studies and other speakers during annual policy dialogue

## Annprod 2018

Annprod, the flagship event of the Dramatics club of IIT Bombay, Fourthwall was held during February 8-9, 2018. Annprod is the showcase of the best of theatre in the college and this year's Annprod was a great success. Self-written and self-directed 4 plays and 2 mono acts were performed which had an amazing audience response. Bollywood actors Mr. Shreyas Talpade and Mr. Anang Desai came and talked about various aspects of theatre and cinema. The event showed the rich cultural diversity present among the students.



Pictures of Annprod 2018 organized by Fourthwall Dramatics club

## Tata Centre For Technology And Design Symposium 2018

TCTD Symposium 2018 was the first annual conclave hosted by Tata Centre for Technology and Design (TCTD), IIT Bombay during January 17-18, 2018. The theme '**Innovate to Transform**' was expected to take on the challenges that academic institutions and stakeholders face in driving social innovation for better impact.

This event was planned to showcase the technological solutions, project ideas and research teams from Tata Centre, IIT Bombay, and MIT-Tata Centre, with the objective of collaborating with the relevant stakeholders.

The two day-conclave offered a platform for interactions with the faculty members from IIT Bombay and MIT, USA, the Tata Fellows, project team members, the Tata Trusts, governmental agencies, NGOs and impact investors.



*Panel discussion on theme of 'Innovate to Transform'*

society. With the generation of new knowledge, need-based technological solutions and their dissemination to society being the underlying mission, social relevance was key to the scaling of interventions and innovative solutions.

## Times Higher Education (THE) Asia University Rankings 2018

Indian Institute of Technology Bombay (IIT Bombay) is holding the 44th position in Asia and second in India, according to Times Higher Education's annual Asia University Rankings.

The 2018 Asia University Rankings released a survey of the 350+ best colleges and universities in Asia, featuring institutions from 25 countries. IIT Bombay is judged across all its core missions – teaching, research, knowledge transfer and international outlook, with an overall score of 44.6 out of 100. The Institute has scored 46.9 in teaching, 43.4 in research, 47.8 in citations, 53.4 in Industry income and 19.9 in International outreach.

The results of the rankings were declared on February 7, 2018 by THE, a British company.



*Director Prof. Devang Khakhar addressing the gathering*

The projects covered under the seven domains of Tata Centre – Healthcare, Food and Agriculture, Energy, Waste Management, Education, Housing and Water were discussed in sessions across the symposium.

The eminent speakers included **Dr. Rajendra Singh**, Winner of the Magsaysay Award, Stockholm Water Prize and Water Man of India, **Prof. Jyeshtaraj Joshi**, Padma Bhushan, Emeritus Professor – JC Bose Fellow, **Prabhat Pani**, Head, Partnerships and Technology Platforms, Tata Trusts, **Robert James Stoner**, Director, Tata Center for Technology and Design, MIT, USA, **Dr. Raghunath Mashelkar**, Padma Vibhushan, eminent Scientist, Indian National Research Professor (NCL), President of Global Research Alliance. Other guest speakers and panelists spoke of how science and technology could only bring about prosperity and transformation to

only bring about prosperity

## Student Satellite Team Of IIT Bombay Makes Its Knowledge Accessible To The Masses

On the occasion of National Science Day on February 28, 2018, the Student Satellite Team of IIT Bombay presented a small gift to India, in return for the love, support and appreciation that the team has received from the nation throughout its journey. The team proudly presented the Satellite 101 Wiki, a systematic and organized compilation of the knowledge and the experience gained by the team through the journey of Pratham, IIT Bombay's first student satellite, aimed at helping various students and colleges across India, who wish to start off their own satellite projects. It is live at <https://www.aero.iitb.ac.in/satelliteWiki>

### Why document all knowledge?

After the successful launch of the first satellite of IIT Bombay, Pratham, it was felt that the knowledge and the experience accumulated by the Pratham team over the years should be systematically preserved for the future teams. **Yash Sanghvi**, who was a part of the Pratham team and is now the Project Manager of the next satellite project Advitiy said, *“One of the driving factors in making Pratham was to create something that would outlive the student’s tenure at IIT Bombay. At the same time, we wanted to involve more and more people in satellite and space technology. We carry forward the same spirit into Advitiy.”*

No academic credits were provided for making Pratham. It was taken up by the students as an extra-curricular project. The entire project was student-run, and the team was self-taught, with mentorship and guidance from faculty members and support from IIT Bombay and Indian Space Research Organization (ISRO). Consequently, invaluable knowledge was accumulated by the team, which could not be gained through any academic course or from a book, but through experience and rigour, and it needed to be preserved. In parallel, the team was approached by several students from all over India, who were seeking help in starting off a Student Satellite Project in their own college/ university.

### A Wiki is born

The same systematic process was used for making the wiki that was used for making the satellite itself. The work was split across various subsystems, and across hierarchical topics within a particular subsystem. Each team member was given a set of topics which that member was well-versed with. *“I certainly enjoyed writing these pages. This Wiki gave me an opportunity to hone my creative side while strengthening my own technical concepts. And it always feels nice to share your knowledge!”* said **Sukanya Kudva**, member of the Attitude Determination and Control Subsystem of Advitiy.

Each of the Wiki documents were then reviewed by the Project Manager. Once the documents were ready, the focus shifted to the web team, which was responsible for properly uploading it online in a concise and presentable format. *“Though the content was ready by December end, putting it up online was quite a challenge, especially because the proper formatting of equations and images and the provision of other reader-friendly features demanded time,”* said **Alok Kumar**, the web convener of IITBSSP, who was responsible for setting up the Wiki online. In all, it took over 6 months to bring the Wiki in its present form.

### What's next?

The team is hopeful that in the long run, the Wiki will evolve to become a useful resource for all the queries and problems faced by the various student satellite teams. The team also expects this Wiki to inspire more and more people to take the first and the most crucial step in satellite building: starting the project! The team hopes that this Wiki will lead to many more Prathams across several colleges and universities of India.



IIT Bombay's student satellite team Advitiy

The Satellite 101 Wiki

## International Conference On 'Entrepreneurship And Family Business'

Shailesh J. Mehta School of Management, IIT Bombay and University of North Texas (UNT), USA jointly organized an International Conference on Entrepreneurship and Family Business (ICEFB) during January 8-10, 2018. It was aimed at tackling challenges facing small and medium enterprises and family firms around the world.

*Participants of international conference on "Entrepreneurship and Family Business 2018"*



(L-R) Prof. Derrick D'souza, Prof. S. Bhargava, Prof. P. V. Balaji, Prof. Marilyn Wiley, Dr. Manjula Salimath during the ICFBE 2018 conference

UNT's College of Business and IIT Bombay's SJMSOM had conducted what may be one of the first such events of its kind, designed around the increasing attention surrounding entrepreneurship in emerging economies. Scholars, policy makers, academics and business practitioners from different countries came together to discuss the ways in which entrepreneurship can help individual companies and the larger, worldwide economy grow.

Prof. P. V. Balaji, Dean, (Research and Development) IIT Bombay and Dr. Marilyn Wiley, Dean, College of

Business, University of North Texas jointly inaugurated the conference. 26 papers on different 9 tracks were presented across 3 days during the conference. Each track had a chairperson and a rapporteur (PhD students). The 9 tracks are:

- Social Entrepreneurship, CSR and Sustainable Development
- Entrepreneurship - Multidisciplinary Approaches
- Start ups, Innovation and Venture Funding
- Intrapreneurship and Leadership
- SMEs – Transitioning and Management
- Technology Implications – Digital, Mobile, etc.
- Family Business and Entrepreneurship
- International Entrepreneurship and Family Business
- Gender Issues and Diversity Management

Prof. S. Bhargava, SJMSOM, IIT Bombay and Dr. Manjula Salimath, University of North Texas were ICFEB Program Chairs. The conference also witnessed cultural programme on Bharatnatyam on January 9, 2018.

## IIT Bombay Racing Team Wins At Formula Bharat

The IIT Bombay racing team participated in the **Formula Bharat Electric Vehicle Concept Challenge** held at Kari Motor Speedway, Coimbatore during January 25-28, 2018. The team bagged the first position in the Business Event and second position in the Design Event. They were also invited by the organisers to make a brief presentation to participating teams on “*Safety While Working on Electric Vehicles*” taking into consideration the excellent safety track record of IIT Bombay racing team.

Formula Bharat is India's premier student designed race car competition, with qualified judges not just from the Indian industry, but also experienced individuals from international motorsports events such as Formula One. Participating teams were required to present the engineering design, business model and costing of the vehicle. It was organised by the Mobility Engineering Consortium Private Limited.



IIT Bombay Racing team contingent at the Kari Motor Speedway

IIT Bombay Racing is a team of 60 tech enthusiasts, spread across 10 departments of the Institute, who design, fabricate, test and race a **Formula Student Electric Race Car**. The team has been consistently ranked among the top two electric teams in India according to official FSAE rankings.

Prof. Amber Shrivastava, Prof. Ramesh Singh and Prof. Anirban Guha from Department of Mechanical Engineering guided and supported the team for the great success.

## International Film Festival On Celebrating Gender Diversity



Release of film festival catalogue by Ms. Rajshri Deshpande, theatre and film actress, Prof. Soumyo Mukherjee, Dean (Student Affairs), Mr. Etienne Lambert, Consul for Political, Economic and Public Affairs of Canada, Ms. Shivanee Manchanda, Counsellor for Positive Mental Health, Student Wellness Centre, IIT Bombay and Mr. Harish Sadani, Chief Functionary, MAVA.

To help raise awareness about gender stereotypes and how they adversely impact both men and women, an international film festival on ‘*Celebrating Gender Diversity*’ was organized by the Student Wellness Centre and the Women’s Cell during February 3-4, 2018. The film fest was organized in collaboration with Men Against Violence and Abuse (MAVA) and was funded by Canada Fund For Local Initiative. Issues like sexual harassment, self expression of gender identity, pressures of hyper-masculinity were discussed after the screening of films like ‘*The Masks You Live In*’, ‘*Mardistaan*’, ‘*Sundar*’, ‘*Majma*’ etc. Whereas films like ‘*Driving With Selvi*’ and ‘*Khule Aasman Ke Niche*’ highlighted the positive impact well-crafted documentaries can have on society. The film fest was accompanied by a campaign on **#thodasoho #thodabablio** where the audience was asked to draw their answers to questions like “Do tears have a gender? Can men be sensitive and nurturing? Where on the gender continuum are you?”

## Annual InSync's Dance Show



## Glimpses of Annual InSync's Dance Show

Annual InSync's Dance Show (AIDS), the flagship dance event of InSync, was organized in the Institute with the theme of VIBES on January 24, 2018. This year's AIDS was the biggest of all, consisting 175 dancers and around 2500 audience. Various dance performances orchestrated by the students were shown during the event. These performances were based on different themes and concerns like Yajna Seni (story of Draupadi linking with the current status of women in society). Another performance was about a person who got stuck in the story of Kalinga war.

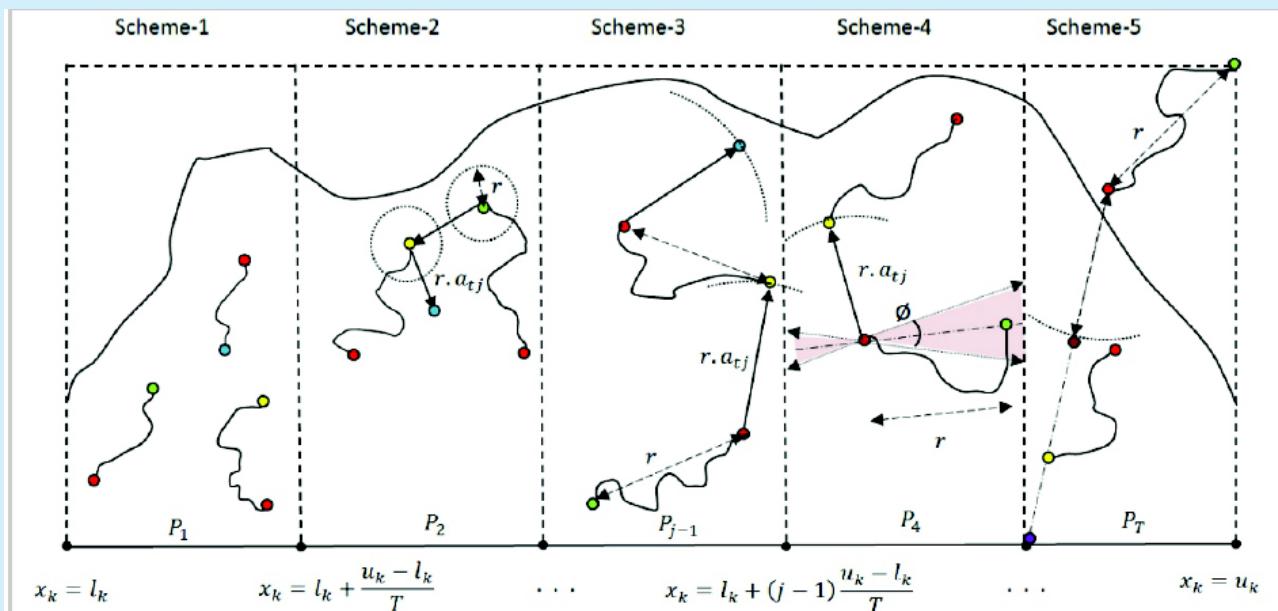
In the performances by students of NGO Pratham, social causes like '**save girl child**' and '**child labour**' were targeted. Their performances received a standing ovation from the whole crowd. Dynamic Dance Crew's professional performance was well-appreciated by the audience during the event.

## Research In Focus

### Algorithms And Software For Hard Optimization Problems

Our group is developing new techniques for solving difficult mixed integer nonlinear and combinatorial optimization problems (MINLPs). These problems arise in a wide variety of scientific, engineering and business applications ranging from portfolio optimization to design of logistic networks of a supply chain, scheduling of industrial operations and optimal layout of industrial facilities. Many of these problems are provably hard. All known algorithms to solve these problems take exponential amount of time in the size of the input. Since problems arising in practice are growing in size as well as complexity, there is a growing need to develop general-purpose, fast and robust optimization solvers. Minotaur solver developed by me and my collaborators at the Argonne National Lab and University of Wisconsin at Madison (USA) is a fully open source solver for MINLPs.

Over the last few years, our group has improved its performance many-fold by incorporating several new algorithmic and computational techniques into it. There are only a handful of MINLP solvers available world wide. Being free and open source makes Minotaur an especially attractive alternative to users who want to solve such problems as well as other researchers who want to study and develop faster algorithms.

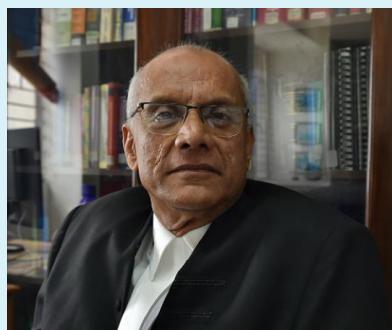


**Prof. Ashutosh Mahajan,**  
**Industrial Engineering and Operations Research, amahajan@iitb.ac.in**

## Institute Colloquium / Lectures



**Prof. Kaivan Munshi**, Frank Ramsey Professor of Economics, University of Cambridge, delivered an Infosys Prize Lecture on “*Missing Girls*” on January 4, 2018



**Dr. Colin Gonsalves**, Senior Advocate, Supreme Court of India and Founder, Human Rights Law Network, delivered an Institute lecture on “*Recent Human Rights Controversies in the Supreme Court*” on January 13, 2018



**Prof. Chennupati Jagdish**, The Australian National University Canberra, Australia delivered ‘Professor C.N.R. Rao Lecture on Nanoscience and Nanotechnology’ on “*Semiconductor Nanowires for Optoelectronics and Energy Applications*” on January 18, 2018



**Prof. Arnulf Grubler**, Professor at Yale University, Researcher at IIASA, delivered an Institute lecture on “*Technological Innovations for Sustainable Development*” on January 22, 2018



**Prof. Santanu Bhattacharya**, Director, Indian Association for the Cultivation of Science, Kolkata delivered the ‘Professor C.N.R. Rao Lecture Series on Nanoscience and Nanotechnology’ on “*Design of Functional Delivery Systems using Nanobiotechnology*” on January 30, 2018



**Prof. Serge Haroche**, Nobel Laureate in Physics 2012, delivered the Nobel Laureate Lecture on “*The connection between blue sky research and innovation*” on February 3, 2018



**Prof. Rajmohan Gandhi**, a historian and biographer interested in peace and reconciliation, delivered an Institute lecture on “*Was Gandhi like us, and can we be like him?*” on February 9, 2018



**Prof. David P. Field**, Washington State University, USA, delivered Steel Colloquium on “*Forensic Analysis of Plastic Strain for Complex Deformation Processes*” on February 20, 2018



**Prof. K.T. Ramesh**, Decker Professor of Science and Engineering, The Johns Hopkins University, USA, delivered an Institute lecture on “*Integrated multiscale materials design for extreme environments*” on February 16, 2018

## Departmental Lectures

### Department of Bio-science and Bio-engineering

**Prof. Naren Vyawahare**, PhD Hunter Endowed Chair and Professor of Bio-engineering, Director, South Carolina Bio-engineering Center of Regeneration and Formation of Tissues (SC BioCRAFT) delivered a lecture on *"Transformative research in bio-materials and bio-engineering at Clemson University possible collaborative projects with IIT Bombay"* on January 11, 2018

**Dr. Phil Low**, Presidential Scholar in Drug Discovery and Corley Distinguished Professor of Chemistry, delivered an India-Purdue Collaborative Lecture on *"New Targeted Therapies for Cancer, Autoimmune, and Infectious Diseases"* on January 11, 2018

**Mr. Swadhin Chandra Jana**, Post-doctoral fellow, Gulbenkian Institute, Portugal, delivered a talk on *"Novel mechanisms of spatiotemporal control of number and diversity of centrosome-cilia"* on February 8, 2018

**Prof. Prabal Maiti**, Department of Physics, Indian Institute of Science, Bangalore, delivered a talk on *"Understanding DNA based nanostructures"* on February 19, 2018

### Department of Chemical Engineering

**Dr. Jothirmayanantham Pichaandi**, Fluidigm Canada, gave a talk in a seminar on *"Nanoparticle- Antibody Conjugates as High Sensitive Reagents for Mass Cytometry"* on February 8, 2018

**Prof. K. V. Venkatesh**, Department of Chemical Engineering, delivered a talk on *"Systems Engineering Perspective of Human Metabolism through a Multiscale Model for Disease Analysis: A Cell to Human Framework"* on February 15, 2018

**Prof. Anugrah Singh**, IIT Guwahati, delivered a talk on *"Rheology and Dynamics of Binary Suspensions"* on February 26, 2018

### Department of Computer Science and Engineering

**Prof. Siddharth Garg**, New York University, delivered a talk titled *"Chip Fabrication to Verifiable Deep Learning in the Cloud"* on January 24, 2018

**Prof. Nitish V. Thakor**, National University of Singapore, delivered a talk on *"Neurotechnology: Making Brain, Mind and Machine Work Together"* on January 30, 2018

**Prof. Moshe Y. Vardi**, Rice University, delivered a talk on *"The Siren Song of Temporal Synthesis"* on February 13, 2018

**Prof. Vinayak Naik**, IIT Delhi, delivered a talk on *"Use of Machine Learning to Detect Physical Analytics of People Using Their Smart Phones While Traveling in the Metro Trains"* on February 21, 2018

**Prof. Ahmed Bouajjani**, Paris Diderot University, France, gave a talk on *"On Checking Robustness of Concurrent Systems"* on February 23, 2018

### Department of Earth Sciences

**Prof. Gerta Keller**, Department of Geosciences, Princeton University, delivered a lecture on *"Mercury links Deccan Volcanism to climate change and the end-Cretaceous Mass Extinction"* on February 14, 2018

**Prof. Barbara Romanowicz**, Seismologist, Institut de Physique du Globe de Paris, gave a talk on *"Seismic Imaging of the earth's deep mantle in the era of high performance"* on February 23, 2018

### Department of Electrical Engineering

**Prof. Rahul Vaze**, School of Technology and Computer Science, TIFR Bombay, gave a talk in a seminar titled *"Tractable Capacity of Cellular Wireless Networks"* on February 7, 2018

**Mr. Tejas Hiramani**, alumnus, gave a talk in a seminar titled *"The Cryptocurrency World"* on January 9, 2018

### Department of Energy Science and Engineering

**Prof. Peter Fischer**, Fraunhofer Institute for Chemical Technology, Germany, delivered a talk on *"Redox flow battery technology – from vanadium flow battery to next generation systems"* on February 7, 2018

**Prof. Gary Hodes**, Dept. of Materials and Interfaces, Weizmann Institute of Science, Israel, delivered a talk on *"Stability of Pb and Sn-based halide perovskite PV materials and cells"* on February 7, 2018

**Dr. Mega Kar**, Monash University, delivered a lecture on *"Ionic Liquids for Rechargeable Metal Batteries"* on February 13, 2018

**Dr. Virendra M. Puri**, Penn State University, USA, delivered a talk on *"Forty-Year Journey through the Wonderful World of Particles – Few Reminiscences"* on February 14, 2018

### Department of Humanities and Social Sciences

**Prof. Carl Gombrich**, Programme Director of University College, London's Arts and Sciences, gave a talk in a seminar on *"Why interdisciplinary higher education is the future"* on February 5, 2018

**Dr. Robin Durnford**, University of Alberta, delivered a talk on *"Posthumanous Victorians: Eugenics from Francis Galton to Silicon Valley"* on February 21, 2018

### Department of Mathematics

**Dr. Ashwin Deopurkar**, TIFR Mumbai, delivered a talk on *"Divisor theory on tropical curves: Riemann-Roch and Brill-Noether"* on February 12, 2018

**Prof. Graeme Fairweather**, Former Head, Mathematical and Computer Sciences, Colorado School of Mines, USA, delivered a talk on *"Ethical and Responsible Conduct of Research"* on February 12, 2018

**Prof. Tovohery Randrianarisoa**, University of Zurich, Switzerland, delivered a talk on *"Coding Theory and Cryptography Seminar"* on February 15, 2018

**Mr. K. N. Raghavan**, The Institute of Mathematical Sciences, delivered a

talk on "The KPRV theorem via paths" on February 16, 2018

**Prof. Sara Faridi**, Dalhousie University, delivered a talk on "Monomial Ideals with Linear Resolution" on February 16, 2018

#### **Department of Mechanical Engineering**

**Dr. Suresh G. Advani**, University of Delaware, gave a talk in a seminar titled "Multi-scale Modeling and Simulation of Composite Manufacturing Processes" on February 5, 2018

**Dr. Prapanch Nair**, Friedrich-Alexander University, Erlangen, Germany, has delivered a lecture on "Meshless simulations of dynamic melting for additive manufacturing applications" on February 21, 2018

**Prof. Michael Gozin**, Tel Aviv University, Israel, delivered a talk on "Development of Novel Energetic Compounds and Nanomaterials" on February 21, 2018

**Dr. Darshan S. Shah**, Imperial College London, gave a talk in a seminar titled "Life after Death: Replicating active joint motions in cadaveric specimens for biomechanical testing" on February 28, 2018

#### **Department of Metallurgical Engineering and Materials Science**

**Prof. Marc Fivel**, CNRS research Professor, delivered a talk in a seminar "Crack Initiation And Propagation In Fatigued 316L Stainless Steels: A 3D Discrete Dislocation Dynamics Investigation" on January 23, 2018

**Prof. Sung Hun Jin**, Incheon National University, gave a talk in a seminar titled "Single-Walled Carbon Nanotubes (SWNTs): History and Future Prospects for Electronic Applications" on February 21, 2018

#### **Department of Physics**

**Prof. Jean Christophe Tremblay**, Freie University, delivered a talk on "Visualizing ultrafast correlated electron dynamics in molecules and nanostructures" on February 14, 2018

**Prof. Dai-Sik Kim**, Seoul National University, delivered a talk on "Light matter interaction on quantum scale" on February 21, 2018

**Prof. Jean Christophe Tremblay**, Freie University, delivered a lecture on "Visualizing ultra-fast correlated electron dynamics in molecules and nanostructures" on February 14, 2018

**Prof. Gunnar Bali**, University of Regensburg, Germany, delivered a talk on "Distribution amplitudes from Euclidean correlation functions" on February 27, 2018

#### **Systems and Control Engineering**

**Dr. Antonio Loria**, Gif-sur-Yvette, France, delivered a talk on "On Persistency of Excitation: Stability of Adaptive Systems" on February 28, 2018

#### **Industrial Engineering and Operations Research**

**Prof. Owen Berkeley Hill**, Visiting Professor, SJMSOM, delivered a talk on "Lean Thinking" on February 15, 2018

**Dr. Umang Bhaskar**, TIFR, Mumbai, delivered a talk on "Using Tolls and Signals to Obtain Good Equilibria in Routing Games" on February 26, 2018

#### **IDP in Climate Studies**

**Prof. Andrew Orr**, British Antarctic Survey, UK delivered a talk on "Sensitivity of the Indian summer monsoonal to greenhouse-gas forcing and aerosol influences in an atmospheric model" on February 19, 2018

**Prof. Farroq Azam**, IIT Indore, gave a talk on "Status of the Himalayan-Karakoram glaciers" on February 21, 2018

#### **SJM School of Management**

**Dr. N.N. Panicker**, ExxonMobile, has delivered a talk on "Synergistic Self-management" on February 20, 2018

#### **Centre for Policy studies in association with HSS Department**

**Prof. Yogendra Yadav**, National President of Swaraj India, delivered a talk titled "Do farmers have a future in new India?" on February 2, 2018

#### **Centre for Technology Alternative For Rural Areas (CTARA)**

**Prof. Rajmohan Gandhi**, Biographer and research professor, Center for South Asian and Middle Eastern Studies, University of Illinois, gave a talk in a seminar on "India's possibilities and the Indian personality: What one historian and observer finds" on February 15, 2018

#### **Centre For Urban Science And Engineering**

Prof. João Gama, Porto University, Portugal, gave a talk in a seminar titled "Data Sciences In The Xxi Century" on February 1, 2018

#### **Centre of Studies in Resources Engineering (CSRE)**

**Prof. Alejandro C. Frery**, Universidade Federal de Alagoas, Brazil, delivered a lecture on "Statistical Information Theory and Geometry for SAR Image Analysis" on February 5, 2018

**Prof. Paul Siqueira**, Department of Electrical Engineering, University of Massachusetts, USA, delivered a lecture on "SAR and InSAR Development in the Study of Ecosystems" on February 5, 2018

#### **Yogastha - Wellness Club of IIT Bombay**

**Dr. Ramesh Bijlani**, an Indian writer, inspirational speaker, medical scientist and retired professor of physiology, AIIMS, delivered a talk titled "Enriching the Journey of Life with Yoga" on February 9, 2018

#### **Krittika, The Astronomy Club**

**Mr. Sandesh Kalantre**, gold medalist at International Olympiad on Astronomy and Astrophysics 2012 and International Astronomy Olympiad 2011, delivered a lecture on "Cosmology" on February 7, 2018

#### **Energy Club**

**Mr. Sandeep Chittora**, Siemens Limited, delivered a talk on "The flexible operation of thermal power plants" on February 21, 2018

## Awards and Distinctions

**Prof. Vikram Vishal**, Department of Earth Sciences, has been selected as the member of INSA Young Academy of Sciences.

**Prof. Sudhir Ghorpade**, Department of Mathematics, has been elected as the President of the Indian Mathematical Society for the year 2018-19

**Prof. Souvik Mahapatra**, Department of Electrical Engineering, has been elected as a Fellow of the Indian Academy of Sciences (IASc)

**Prof. Chandra Venkataraman**, Department of Chemical Engineering, has also been elected as a Fellow of the Indian Academy of Sciences (IASc)

**Prof. Abhay Karandikar**, Dean (Faculty Affairs), has been appointed as a part-time member of the Telecom Regulatory Authority of India (TRAI) for a period of 3 years

**Prof. Venkat Gundabala**, Department of Chemical Engineering research work with the research scholar Mr. Danish Eqbal has received the Best Oral Presentation award at the "5<sup>th</sup> International Conference on Microfluidics and LAB-ON-A-CHIP

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

**Prof. Suryendu Dutta**, Department of Earth Sciences, has been selected for the National Geo-science Award-2017 for extraordinary achievements and outstanding contributions in the field of fundamental Geo sciences by Ministry of Mines, Government of India

**Prof. Saurabh Lodha**, Department of Electrical Engineering, has been selected for the prestigious Swarna Jayanti

Fellowship Award for the year 2016-17, in the field of Engineering Science

**Prof. T. Eldho**, Department of Civil Engineering has been selected for "Eminent Water Resources Scientist Award - 2017" instituted by Indian Water Resources Society (IWRS)

**Prof. K. Ramasubramanian**, Department of Humanities and Social Science, has been conferred with Madhava Ganita Puraska instituted in the name of the famous Kerala mathematician Madhava, who for the first time in the history of mathematics, arrived at the infinite series for Pi, sine and cosine functions - almost three centuries before Newton and Leibniz

**Prof. Souvik Banerjee**, Department of Civil Engineering, has been appointed as Associate Editor for ASME Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems

**Prof. Raghwan B. Sunoj**, Department of Chemistry, has joined the Editorial Advisory Board of ACS Catalysis from January 2018

**Prof. Inder K. Rana**, Department of Mathematics, has been elected as President of "The Association of Mathematics Teachers of India (AMTI)

**Prof. V. M. Gadre**, Department of Electrical Engineering, has been awarded "Indian National Science Academy Teachers Award 2017"

Film made by **Prof. Nina Sabnani**, Industrial Design Centre, "We Make Images" ("Hum Chitra Banate Hain") has been selected for this year's German International Ethnographic Film Festival (GIEFF), due to be held from May 9 - 13, 2018 in Koblenz, Germany

**Prof. V. Jothiprakash**, Department of Civil Engineering has been selected for "Academician Award" by Construction Industry Development Council, CIDC, (Established by Planning

Commission, Government of India and Construction Industry)

**Prof. Anil Kottanthalayil**, Department of Electrical Engineering, has been selected for Indian Electronics and Semiconductor Association (IESA) Technovation 2017- Techno Mentor award

**Prof. Rohit Srivastava**, Department of Biosciences and Bioengineering, has been selected for "National Bioscience Award for Career Development 2016" by Department of Biotechnology, Government of India

**Prof. Samir K. Maji**, Department of Biosciences and Bioengineering, has been selected for "National Bioscience Award for Career Development 2016" by Department of Biotechnology, Government of India

## Student and Staff News

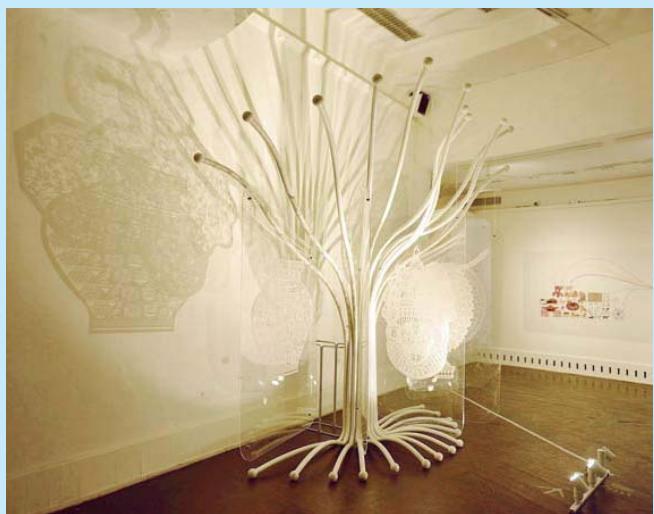
**Mr. Sanjay Kureel**, Research Scholar, Department of Chemical Engineering, has been awarded Best poster presentation prize at the 2018 International Congress of Cell Biology (ICCB)

**Ms. Shubhangi Shingade**, student of Campus School, has been selected for INSPIRE Award by the Ministry of Science and Technology, Government of India for the year 2016-17 for preparation of Science project to participate in District level exhibition

**Ms. Swarangi Kale**, student of Campus School, has been selected for INSPIRE Award by the Ministry of Science and Technology, Government of India for the year 2016-17 for preparation of Science project to participate in District level exhibition

**Master Vishnu Patil**, student of Campus School, has been selected for INSPIRE Award by the Ministry of Science and Technology, Government of India for the year 2016-17 for preparation of Science project to participate in District level exhibition

The National Gallery of Modern Art (NGMA) hosted an exhibition titled '*Nature Embedded: A Design Technology Experience*'. Curated by Dr. Sen, founder of design in India, the exhibition uses 15 different media to pay tribute to nature through design. The exhibition is the result of the 18 months of research that Dr. Ajanta Sen undertook with Prof. Ravi Poovaiah of the Industrial Design Centre, IIT Bombay. The intersections of man with nature emerge through calligraphy, photography, cartoons, tessellated murals, product installations as well as emerging media involving infographics, holograms, interactive projections and augmented reality that enable the viewer to engage with the exhibits. It depicts the story of man's closeness and eventual drifting away from nature, with the hope of rekindling the bond



20 students of IIT Bombay participated in the '*Auto Expo – The Motorshow 2018*' in Greater Noida. Amidst the excitement of new cars on display and big names of the auto industry in high attendance, the creative transport designs of students of IIT Bombay at Hall 1, Stall E3N were turning heads

**Ms. Karrie Peterson**, Head, Liaison, Instruction, and Reference Services, MIT Libraries, USA visited Central Library, IIT Bombay on January 22, 2018



## NOTIFICATION

**Prof. Swati Patankar**, Department of Biosciences and Bioengineering, has been appointed as the Dean of International Relations w.e.f. January 2, 2018

**Dr. Manju Naika**, Assistant Librarian has taken over the charge of Chief Library Officer w.e.f. January 16, 2018

**Prof. Suhas S. Joshi**, Department of Mechanical Engineering, has been appointed as the Dean of Alumni and Corporate Relations w.e.f. January 22, 2018

**Prof. A. V. Mahajan**, Department of Physics, has been appointed as Professor In-charge, New IIT Mentoring Cell (NIMC) w.e.f. January 24, 2018

**Prof. Prakriti Tayalia**, Assistant Professor, Department of Bioscience and Bioengineering, has been appointed as the Associate Warden, Hostel No.10 w.e.f. January 30, 2018

## Publications

\*Paper titled "*On the Existence of Equilibria in Price Coupling Games*" by student Mr. Mathew Abraham and co-authored by **Prof. Ankur Kulkarni**, Systems and Control Engineering, has received the best student paper award at the Indian Control Conference 2018 held at IIT Kanpur

\*Paper titled "*Design, Fabrication and Testing of Mooring Masts for remotely controlled indoor and outdoor airships*" co-authored by **Prof. R.K. Pant**, Department of Aerospace Engineering, has been awarded the President of India's prize by the Institution of Engineers at the 32nd Indian Engineering Congress

\*Paper titled "*Briquette Compacting Machine : A Design for Rural Applications*" co-authored by **Prof. C. Amarnath** and **Prof. Anirban Guha** was adjudged as the best paper in the 3rd International and 18th National Conference on Machines and Mechanisms, 2017

\*Paper titled "Aerosols cause intra seasonal short-term suppression on Indian Monsoon rainfall" co-authored by **Prof. Chandra Venkatraman** and **Prof. Mani Bhushan**, Department of Chemical Engineering has appeared in Scientific Reports (Nature Publishing Group)

## Appointments

**Prof. Meera Raghunandan**, Department of Civil Engineering, has been appointed as Assistant Professor w.e.f. May 25, 2017



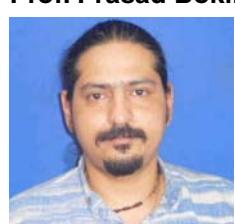
**Prof. Amutham A. Ramabathiran**, Department of Aerospace Engineering, has been appointed as Assistant Professor w.e.f. January 1, 2018



**Prof. Pramod Murali**, Department of Electrical Engineering, has been appointed as Assistant Professor w.e.f. January 1, 2018



**Prof. Prasad Bokil**, Industrial Design Centre, has been appointed as Assistant Professor w.e.f. January 15, 2018



**Dr. Gajender Saini**, CRNTS, has been appointed as Senior Technical Officer w.e.f. January 19, 2018



**Prof. Vivek Kant**, Industrial Design Centre, has been appointed as Assistant Professor w.e.f. January 22, 2018



**Prof. Jotsaroop Kaur**, Department of Mathematics, has been appointed as Assistant Professor w.e.f. January 23, 2018



**Prof. Debanjana Mitra**, Department of Mathematics, has been appointed as Assistant Professor w.e.f. February 1, 2018



**Retirements on  
January 31, 2018**
**Prof. R. K. Shevgaonkar,**


Department of Electrical Engineering, has retired voluntarily on 20.1.2018

**Ms. Annie George,**


Superintendent, Accounts Section, has retired after 34 years of service

**Retirements on  
February 28, 2018**
**Mr. Vijay S. Dubey,** Post Graduate Teacher, (Sr. Scale) Campus School, has retired after 28 years of service

**Mr. John Sugumar G, Sr.**


Pharmacist, Administration Section, has retired after 33 years of service

**CEP courses scheduled during March - April 2018**

Starting Date	Duration	Course Name	Faculty	Department
<b>March 2018</b>				
<b>Open Programmes :</b>				
12-3-2018	5 days	Entrepreneurship, Innovation And Incubators	Prof. Milind D. Atrey	Mechanical Engineering
18-3-2018	1 days	An Introduction To Bitcoin	Prof. Saravanan Vijayakumaran	Electrical Engineering
<b>In House Programmes :</b>				
5-3-2018	8 days	Elements Of Chemical Engineering	Prof. Anurag Mehra	Chemical Engineering
5-3-2018	5 days	Management Development Program	Prof. Ashish Pandey	School of Management
6-3-2018	2 days	Reliability Analytics For Rcm	Prof. Makarand S. Kulkarni	Mechanical Engineering
29-3-2018	2 days	Layer Of Protection Analysis	Prof. Sandip S. Roy	Chemical Engineering
<b>GIAN Courses :</b>				
5-3-2018	10 days	Cyber Physical System Security For The Smart Grid	Prof. R. K. Shyamasundar	Computer Science and Engineering
12-3-2018	5 days	Fundamentals Of Multiscale Heat Transfer	Prof. Sandip Kumar Saha	Mechanical Engineering
23-3-2018	6 days	Phase Field Modelling For Microstructural Evolution	Prof. Mogadalai P. Gururajan	Metallurgical Engineering and Materials Science
<b>April 2018</b>				
<b>Open Programmes :</b>				
23-4-2018	2 days	Managing Emotions	Prof. S. Bhargava	School of Management
25-4-2018	3 days	Solar Thermal Technologies For Industrial Process Heat And Power	Prof. Anish Modi	Energy Systems Engineering
28-4-2018	2 days	Coach To Lead	Prof. S. Bhargava	School of Management
<b>GIAN Courses :</b>				
2-4-2018	5 days	Magneto-Electric Composites For Smart Sensors And Signal Processing Devices	Prof. Narayanan Venkataramani	Metallurgical Engineering and Materials Science

In the  
Wilderness**Photo Credit :****by Abhishek Shirkar***Student**Department of Energy Science and Engineering***salt'n pepper**

by Prof. Arun Inamdar

