

## Highlights

- **Prof. Manindra Agrawal**, Department of Computer Science & Engineering appointed as the Deputy Director, IITK.
- **Prof. S Ganesh**, Department of Biological Sciences and Bioengineering appointed as the Dean of Research and Development, IITK .
- **Prof. Ajit Kumar Chaturvedi**, Department of Electrical Engineering appointed as the Director of IIT Roorkee.
- **Prof. Rajat Moona**, Department of Computer Science & Engineering appointed as the first Director of IIT Bhilai.
- **Prof. B K Mishra**, the former faculty of Department of Materials Sc. & Engineering appointed as the first Director of IIT Goa.
- **Prof. Animesh Biswas**, Department of Electrical Engineering appointed as the new Director of NIT, Rourkela (NITR).

## From the Director's Desk

**K**nowledge is treasure, knowledge is power. While information crystallizes into knowledge which eventually sublimes into profound wisdom, in the present era of knowledge society, there is no denying the fact that information, more precisely inflow and dissemination of information, is the key to the path of progress and development.

The Institute has created the **INFORMATION CELL** with this very intention of facilitating information flow in and out of the system concerning each individual, component, section and division of IIT Kanpur so that the system as a whole is enabled, integrated and empowered to pursue development and profess excellence. In order to create a structured organ for information dissemination to the entire community comprising former and present students, scholars, staff and faculty members, and extending to all stakeholders including employers, industry, agencies, government and private organizations, entrepreneurs, policy makers and international community, IITK has resolved to launch a bimonthly newsletter on the auspicious eve of the 68th Republic Day that will highlight news not just from the academic front but also from the entire spectrum IITK fraternity – academic units, research centers, student and staff gymkhana, schools in the campus, faculty club, women's association, and alumni association. The intent is to create a two-way information flow – disseminate news about IITK and also to apprise the community about relevant developments all around. The Editorial Board will adopt an innovative crowd sourcing mechanism to collect and collate the feed to enrich this newsletter. We sincerely hope that this new initiative will receive your active patronage and mentoring.

Happy New Year and the 68<sup>th</sup> Republic Day.

**Jai Hind!**

**Prof. Indranil Manna**  
Director, IIT Kanpur

## New Colleagues



**Prof. Pritam Chakraborty**  
Assistant Professor  
Aerospace Engineering



**Prof. GM Kamath**  
Associate Professor  
Aerospace Engineering



**Prof. Vishal Agarwal**  
Assistant Professor  
Chemical Engineering



**Prof. Nisheeth Srivastava**  
Assistant Professor  
Computer Science & Engineering



**Prof. Amit Verma**  
Assistant Professor  
Electrical Engineering



**Prof. Amit Shekhar Kuber**  
Assistant Professor  
Mathematics



**Prof. Arijit Kundu**  
Assistant Professor  
Physics

## 51<sup>st</sup> Inter-IIT Sports Meet

### Three hurrahs for IIT Kanpur!

**A**t the 51<sup>st</sup> Inter-IIT Sports Meet, 2016, the student and staff teams lead the institute to a stupendous win with gold medals in badminton, cricket, football, lawn tennis, squash, volleyball and weightlifting by the students' team and in basketball, badminton, cricket, football and volleyball by the staff team.

The final tally of marks stood at 122 for IITK in the students' general championship while IIT Delhi, which stood second, trailed behind with a total score of 89. In the staff championship, the IITK team raked up a final score of 82 as opposed to 48 of the first runners up, IIT Delhi.

This is the third year in a row that IITK has been declared general champions of the Inter-IIT Sports Meet.



IITK Students' team with the Winner's Trophy.



IITK Staff team with the Winner's Trophy.



## Faculty News ■ ■ ■ ■ ■

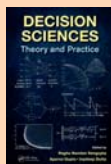
### Au Revoir!

- **Prof. P K Bharadwaj**, Chemistry  
Date of Joining: December 29, 1987
- **Prof. S K Chakrabarti**, Civil Engineering  
Date of Joining: February 10, 1988
- **Prof. K K Saxena**, Humanities & Social Sc.  
Date of Joining: December 22, 1986
- **Prof. Prawal Sinha**, Mathematics  
Date of Joining: March 14, 1978
- **Prof. R C Budhani**, Physics  
Date of Joining: April 11, 1994

### New Books



**Nanofinishing Science and Technology: Basic and Advanced Finishing and Polishing Processes**  
Edited by: Prof. Vijay Kumar



**Decision Sciences: Theory and Practice**  
Edited by: Profs. Raghu Nandan Sengupta, Aparna Gupta, Joydeep Dutta



**Prof. S Anantha Ramakrishna** (Physics) awarded the Shanti Swarup Bhatnagar Award 2016 for the Physical Sciences category.

**Prof. Avinash K Agarwal** (Mechanical Engineering) awarded the Shanti Swarup Bhatnagar Award 2016 for the Engineering Sciences category.



**Prof. Santanu Misra** (Earth Sciences) awarded the SwarnaJayanti Fellowship of DST 2015-16.

**Prof. Kantesh Balani** (Materials Science & Engineering) received the Metallurgist of the Year Award (2016) in the Metal Science category by the Ministry of Steel and Mines.



**Prof. Vinod K Singh** (Chemistry) elected as a Fellow of The World Academy of Sciences (TWAS).

**Prof. Sandeep Sangal** (Materials Science & Engineering) awarded the Distinguished Educator Award 2016 by the Indian Institute of Metals.



**Prof. Mahendra Verma** (Physics) selected for the INSA Teachers Award, 2016.

**Prof. G Santhanam** (Mathematics) selected for the INSA Teachers Award, 2016.



**Prof. Debabrata Goswami** (Chemistry) elected as a Fellow of The Optical Society of America, USA.

**Prof. S N Singh** (Electrical Engineering) elected as a Fellow of IEEE, USA.



## Alumni News

- **Ms. Neha Walani** (BT/CHE/2009) has been selected to be a part of Robert Swan's International Antarctic Expedition 2017 under the 'Leadership on the Edge' program.
- **Mr. Sudhakar Kesavan** (BT/CHE/1976) has been honoured with the TIE DC Legend Award 2016.
- **Dr. Somak Bhattacharya** (PhD/EE/2015) has been awarded the prestigious 'Young Scientist Award' by the International Union of Radio Science (URSI).
- **Dr. Deepak Kumar Agarwal** (MT/ME/2004) has been awarded the 'Swarna Jayanti Award' by the Aeronautical Society of India.
- **Prof. Vijay Kumar Ramakrishnan** (BT/ME/1983) has been elected as a member of the O2Micro International's Board of Directors.
- **Dr. Guruswami S M Sundaram** (Phd/CHM/2006) has discovered an imaging compound 'Fluselenamyl' that may help in early detection of Alzheimer.

## Research & Development ■ ■ ■ ■ ■

### Some Recent Projects

- Department of Science & Technology funded a major project titled *Commissioning of a Pilot Plant of 10 KLD Capacity Comprising of ZnO based Sensitive Photo Catalytic Filters for Visible Light Catalysis and Carbon Nano-Mat Fiber Filter based Treatment of the Effluent of CETP, Jodhpur*. **Prof. Shantanu Bhattacharya**, Mechanical Engineering, is the PI of this project.
- A project titled *Design and Development of Control and Protection for Hybrid Renewable Integration* has been funded by National Thermal Power Corporation Limited. The PI of this project is **Prof. S P Das**, Electrical Engineering.
- **Prof. Sandeep Verma**, Chemistry, has received a funding from Science & Engineering Research Board, DST for the project titled *Insulin Amyloidosis Interference and Modulation of Bacterial Quorum Sensing*.
- The project titled *Targeted Delivery of Human Coagulation Fator Vii In Myeloid Compartment of Haematopoietic Stem Cells for Gene Therapy of Hemophilia B by Adeno Associated Virus (aav) Vectors* has been funded by the Department of Biotechnology to **Prof. Jayandharan Giridhara Rao**, Biological Sciences & Bioengineering.

<http://www.iitk.ac.in/dord/newsletters>

### SIDBI News

NIDHI-EIR Scheme, a new initiative, offers a monthly stipend to budding entrepreneurs at the institute. Similar existing schemes include the MSME program, the INVENT program, PRISM and NIDHI PRAYAS, providing grants and stipends to individuals. SIIC is involved in the development of the Research Park, sanctioned by MHRD and DST, GoI.



# Happenings @ IITK



## Academic Events ■ ■ ■ ■ ■

### ACS on IITK Campus

American Chemical Society held its outreach initiative, ACS on Campus, at IITK on January 13, 2017 helping students and faculty through workshops focused on publishing, communicating effectively, building industry partnerships and using various research tools productively.

At this workshop, the list of speakers included William Tolman, Editor-in-Chief, *Inorganic Chemistry*; Kankan Bhattacharyya, Senior Editor, *The Journal of Physical Chemistry*; Shannon O'Reilly, Outreach Marketing Specialist, ACS and Wendy Wise, Manager of Content Marketing and Lead Generation, ACS.



### Felicitation for Shanti Swarup Bhatnagar Award Winners

On December 1, 2016 the local Kanpur chapters of Indian National Academy of Engineering (INAE) and Indian National Science Academy (INSA) organized the felicitation ceremony of Prof. Avinash K Agarwal (Mechanical Engineering) and Prof. S Anantha Ramakrishna (Physics) on being awarded the prestigious Shanti Swarup Bhatnagar Award for the year 2016.

After a brief introduction by Prof. Debashish Chowdhury, President, INSA local chapter, both Prof. Agarwal and Prof. Ramakrishna delivered talks explaining their respective research work. Prof. Indranil Manna, Director, IIT Kanpur, felicitated them with a shawl and in his address appreciated their efforts and encouraged them to further progress and guide their younger colleagues to pursue excellent research.



Felicitiaion of Prof. S Anantha Ramakrishna



Felicitiaion of Prof. Avinash K Agarwal

## Upcoming Events

- 6<sup>th</sup> International Conference on "Human Values in Higher Education" (ICHVHE-17) from February 10 to 12, 2017.  
<http://www.iitk.ac.in/hvhe/>
- Department of Earth Sciences in association with the Earth Science Society will host the 3<sup>rd</sup> Departmental Day on February 5, 2017.
- TECHKRITI 2017, the annual international, technological and entrepreneurial festival, organized by the students of IITK is scheduled from March 23 to 26, 2017.



## Students' Corner ■ ■ ■ ■ ■

### IITK Secures Second Position in Underwater Vehicle Design Competition

IIT Kanpur's Autonomous Underwater Vehicle (AUV) team competed in the Students' Autonomous Underwater Vehicle (SAVE) competition conducted by the National Institute of Ocean Technology (NIOT) in Chennai last December and did the institute proud by clinching the second position in their first-ever attempt. IITK finished comfortably ahead of the second runners up with their latest bot, VARUN. Fourteen teams from across the country had participated in the competition, including ones from NIT Rourkela and IIT Madras.



### Boeing Workshop at IITK

Boeing organized a two-day workshop at IIT Kanpur, aimed at providing an opportunity to students to develop new ideas, manage a full scale engineering project and manufacture it as per their design. Twenty seven five-member teams from various colleges across India participated in this workshop. Prof. S Kamle, Aerospace Engineering, delivered a lecture on aero-modelling. The event was managed by the Aero-modelling Club at IITK. The teams fabricated an acrobatics plane and an RC trainer which was tested at the campus airstrip.



<http://voxiitk.com/>

# Campus Diary



## Around the Campus ■ ■ ■ ■ ■

### Happy Feet 2016

**O**n December 4, 2016 the Women's Association and the Faculty Club jointly organised a campus walk - 'Happy Feet', as part of their annual activity. The participation from the campus residents was replete with zeal. The event started at 7.30 am in the morning which included 5 km walk around the campus. There were attractive prizes for the winners, and a special prize for the fastest couple!



### Hall of Residence XII



**T**he new hostel for boys has six blocks, each with six stories and 100 rooms, some of which are double-seated and some single. The hostel has a dining hall, a library, computer room, Table Tennis facility, canteen and three shops. In total, the hostel has a capacity of 1200 of which 200 are planned for the students attending various short courses on campus.

### New Shopping Centre

**T**he swanky new shopping centre on the South side of the campus, adjoining the Faculty Apartments, currently houses a departmental store, a coffee shop and a dry cleaners' store, but it will soon be expanding to a total of 8-10 shops, depending on future requirements. There are also plans for a Creche and the required setup for rainwater harvesting. On the first floor, the hall (*Ashiyana*) and the terrace are available for hosting social events.



### Hall of Residence for Girls

**A**ccording to the current plan, the new girls' hostel currently under construction, will have seven stories in addition to the ground floor, with a total of 401 single-seated rooms along with six guest rooms. While the ground floor will have a dining hall and a kitchen area with stores, the first floor will have a TV and TT room, library, a cyber-room, four shops and a space for a parlour. A music and recreation hall, gymnasium and a multipurpose hall are planned on the second floor.

## Obituary

The Institute would like to offer its condolences to the family and loved ones of the deceased.

- **Prof. Vinod Kumar Gupta**  
Aerospace Engineering  
Date of Joining: February 1, 1971
- **Prof. Samaresh Kar**  
Electrical Engineering  
Date of Joining: December 9, 1974
- **Prof. B L Dhoopar**  
Mechanical Engineering  
Date of Joining: July 12, 1963
- **Prof. K Sri Ram**  
Physics  
Date of Joining: December 26, 1969

## From the Album ■ ■ ■ ■ ■



IIT Kanpur Library was established in 1960 as Central Library. In 2001, it was renamed as the 'P.K. Kelkar Library'. It is a magnificent three-storied building covering an area of 5,730 square meters. The photograph above shows the construction of the library.