A four member delegation from IIT Delhi under the leadership of Director Prof. V. Ramgopal Rao visited various cities in the USA between June 14 – 25, 2019. The delegation included Deputy Director (Strategy & Planning), Prof. M. Balakrishnan, Dean (Faculty), Prof. Sudipto Mukherjee and Dean (Alumni Affairs and International Programmes), Prof. Sanjeev Sanghi. The visit constituted of two parts, connecting with the potential faculty candidates and strengthening the ties with the alumni network based in the USA.

Faculty Connect and Alumni Networking events were hosted at seven cities, Bay Area (June 14-15), Houston (June 16-17), Raleigh (June 18), Boston (June 19-20), New York (June 21, 23), Princeton (June 22) and Chicago (June 24-25). The objectives of the visit were to
- Meet the potential faculty candidates with a clear message that IIT Delhi is open to applicants from all nationalities
- Engage and strengthen linkages with professionals, scholars and IIT Delhi alumni
- Collect feedback from alumni on various aspects
- Identify the opportunities of collaboration on research and academics

Various faculty at each of the host university has supported in organizing the Faculty Connect, Stanford University (w/ Prof. A. Paulraj), University of Houston (w/ Prof. Suresh Khator), Duke University & North Carolina State University (w/ Prof. Ashutosh Chilkoti), MIT (w/ Prof. Pawan Sinha & Prof. Tapan Gandhi), Columbia University (w/ Prof. Vineet Goyal), Princeton University (w/ Prof. Sharad Malik) and University of Illinois Chicago (w/ Prof. Pradeep Khanna). More than 200 potential faculty candidates have attended these events and interacted with the delegation members.

More than 250 enthusiastic alumni gathered in Alumni networking events at seven cities, hosted in coordination and support from our alumni, notably the hosts Mr. Rishi Yadav, Mr. Amar Sahni, Prof. Sharad Malik & Prof. Aarti Gupta and Mr. Ajay Gupta & Prof. Raghuram Rajan. The events at Houston and Raleigh were organized with PAN IIT chapters of the respective areas. Director Rao presented his vision and the updates from IIT Delhi during these events.
The Wellness Club at IIT Delhi has organized the celebrations of International Day of Yoga 2019 on June 21, at IIT Delhi. Faculty, staff and students in large numbers have participated in various events such as Run for Yoga, Morning Yoga Session by Yogi Haimanti Mukhopadhyay, Yoga Competition, Array of yoga asanas for children, Panel Discussion and Musical evening in Bhakti Yoga.

The Yoga competition was won by Durva Gupta, Ratnesh Kumar, Prabudh Jangra and Aakash where contestants were tested on accuracy, punctuality and holding the position of the Halasana, Naukasana, Natarajsana, Sarvang asana and Ardha Matsyendrasana. A special session for children was organized including an exciting array of yoga asanas.

During the panel discussion on ‘Yoga: Science or Pseudoscience’, the audience got enlightened with the views of panellists from four different spheres of life - Spirituality, Medicine, Environment and Industry. The panel included Dr. Rahul Mehrotra Director & Head, Non Invasive Cardiology, Max Super Specialty Hospital, Saket, New Delhi, Sahil Aggarwal, an IIT Delhi alumnus and co-founder of Vision India Foundation, Sandeep Vaswani is an Engineer, MBA and an Art of Living trainer and Dr. Krishna Kant Shukla, a musician, scientist, writer, poet, philosopher and environmentalist. The celebrations were followed by musical evening in Bhakti Yoga, performed by Dr. Krishna Kant Shukla, one of the finest Indian folk singer and classical musician.

PAN IIT Dean International Relations Conclave at IIT Kharagpur

The Deans and executives from Nine IITs have participated in the PAN IIT Dean International Relations Conclave conducted at IIT Kharagpur. The deliberation was focused on common challenges towards attracting international students, funding mechanisms, degree provisions and international collaborations.

The IIT Delhi community and specially the CSE department is extremely proud that Deputy Director (Strategy & Planning) Prof. M. Balakrishnan has received the 2018 ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics "For research, development and deployment of cost-effective embedded-system and software solutions addressing mobility and education challenges of the visually impaired in the developing world".

Prof. Balakrishnan has obtained his B.E.(Hons.) in Electronics & Electrical Engineering from BITS Pilani 1977 and Ph.D. from EE Dept. IIT Delhi in 1985. He worked as a Scientist in CARE, IIT Delhi from 1977 to 1985 and for the last 22 years, he is involved in teaching and research in the areas of digital systems design, electronic design automation and embedded systems. Further, he has held various visiting faculty positions with Universities in Canada, USA and Germany. At IIT Delhi, he has held many administrative positions including Head of CSE department, Dean (Post Graduate Studies & Research), Deputy Director (Faculty) and currently serving as Deputy Director (Strategy & Planning). He also serves on the board of several companies and prominently active in ACM and VLSI Society of India. He has devoted more than a decade in addressing the challenges of the visually impaired by developing cost-sensitive, embedded-system and software solutions.

He and his team at ASSISTECH Lab at IIT Delhi focuses on interdisciplinary activities and bring out solutions to the world. SmartCane project is one of such activity which has the capability of detecting above-knee/hanging obstacles within a distance of 3m using ultrasonic waves and conveys the obstacle’s distance through vibrations. He coordinated with non-profits, government agencies and for-profits to bring this device to the market at much less cost with comparable devices in the western world. Within India, over 70,000 devices have been made available through various Government schemes and 45 other partner agencies. This project has won numerous national awards including a Best Paper Award at the International Conference on Mobility and Transport for Elderly and Disabled Persons (TRANSED) 2010. Other diverse activities from ASSISTECH include products such as OnBoard & Braille laptop (DotBook), a non-profit startup (Raised Lines Foundation) and research projects such as Mobility Assistant for Visually Impaired (MAVI) & Reading Assistant for Visually Impaired (RAVI).

We heartily congratulate Prof. M. Balakrishnan for achieving this feat. For more details, please refer the News URL -
https://www.cse.iitd.ac.in/index.php?option=com_content&view=article&id=128
https://awards.acm.org/award_winners/balakrishnan_4440475
Collaborative visit to Universities in UK by Prof. V. K. Vijay

- Prof. Virendra Kumar Vijay, Head & IREDA Chair Professor at Centre for Rural Development and Technology and CO-PI of the project PANCHSEEEL (Participatory Approach for Nutrition in Children Strengthening Health Education Engineering and Environment Linkage) has participated in Dissemination workshop at University College London on June 18, 2019. The project is supported by Medical Research Council UK and lead by UCL along with Indian partners in IITD, JNU and Save the Children.

- Prof. Vijay then visited Queens University, Belfast in Ireland to discuss progress of the DBT sponsored joint collaborative project, Valorizing Waste from Sugar & Allied Industries, with Prof. Vivek Ranade during June 23-25, 2019. He received updates on the Prof. Ranade’s work, & laboratory and also met researchers.

- Prof. Vijay had meetings at Edinburgh Napier University, Dundee University and University of St Andrews in Scotland for research collaboration in bio-energy, biogas and energy access areas and also visited Belfron Biogas plant G 330 RR. The discussion was quite encouraging and all of these wanted to have research collaboration with IIT Delhi in these areas.

- He was invited for the dinner by the Consular General of Indian High commission Ms. Anju Ranjan during his stay at Edinburgh UK on June 21, 2019. Prof. Vijay visited Brunel University London on June 26 to discuss and initiate DST-UKIERI joint project “Concentrating Solar-Thermophilic Anaerobic Reactor for Municipal Solid Waste (COSTARMSW)”. The project is sanctioned in collaboration with Dr Harjit Singh, Senior Lecturer in Built Environment Engineering and Energy, College of Engineering, Design and Physical Sciences.

IIT team to mount devices on 200 cluster buses to check air pollution

- Aerogram, a pollution monitoring device, will be installed atop 200 buses to measure the air quality across the Delhi region, especially during the peak pollution period of September to February. The analysis of the collected data is expected to provide insights into the factors that impacts PM in the air and eventually ranking them to suggest remedial actions. Dr. Rijurekha Sen, assistant professor at computer science department, IIT Delhi is heading the activity under the aegis of Centre of Excellence for Research on Clean Air.


Open House: for female candidates who cleared their JEE Advanced

- IIT-Delhi has organised an open house on June 23 for female students, candidates who cleared their JEE Advanced. The open house had 2 sessions of 3 hours duration each. It was organized by IIT Delhi unit, Initiative for Gender Equity and Sensitisation (IGES) to bring awareness among women students about the life of women students at the IITs. Female students got the opportunity to discuss their academic streams with faculty, fellow students and alumni.

Asun Trackers and IIT Delhi design a solar tracker for Indian market

Asun Trackers and IIT Delhi has developed a 2-axis solar tracker which has a performance comparable to the dual-axis trackers but a cost significantly lower. These trackers provide continuous seasonal movement along the north-south axis, in addition to daily east-west movement. They have a modular design while keeping capital cost in check. With adaptability of 20+ degrees, the trackers can also be deployed in undulating terrain.


Punjab Pollution board and IIT Delhi sign a MoU

On World Environment Day, June 05, the Punjab Pollution Control Board (PPCB) signed a MoU with IIT Delhi to check air pollution in the state. The objective of the MoU is to identify the sources of air pollution in seven cities of Punjab, Jalandhar, Dera Baba Nanak, Khanna, Dera Bassi, Mandi Gobindgarh, Patiala and Naya Nangal and to find ways to control them.


IIT Delhi student towards raising menstrual hygiene awareness

Archit Agarwal, student of IIT Delhi, has launched an awareness campaign among women with a focus on menstrual hygiene. With the web portal www.standupforyourself.in, women can take a pledge to avoid the spread of Urinary Tract Infections (UTIs), caused by the unhygienic toilets.

Clean Air Summit 2019 at IIT Delhi

• Enactus, a student body at IIT Delhi has organized the 2019 edition of Clean Air Summit on June 22, 2019. The emphasis was on need of innovation to make air cleaner and breathable. Policy makers, diplomats, start-ups, students and professors came together to discuss sustainable growth models and clean technologies. The summit included talks on Smart Cities, Clean Air and Health Aspects, Recycling and integration with Education. Business aspects on the clean technology were also discussed followed by the launch a list of clean tech products at the summit. The speakers from Academia, Industry, UNESCO, Policy Groups and Non-Profit Organizations have shared their views on the various aspects of the clean technologies. Enactus team launched its flagship project, Arth, that uses the cow dung logs to reduce the use of wooden logs. The event was sponsored by Valeo and organized in close cooperation of Centre of Excellence for Research on Clean Air (CERCA). TERI, Shakti Sustainable Energy Foundation and Lunch Care Foundation assisted as the channel partners for the event.


IIT Delhi inaugurates the Centre for Automotive Research and Tribology (CART)

• A new Center for Automotive Research and Tribology was inaugurated at IIT Delhi with a strong focus on development of Electric Vehicle Technologies. The centre will also focus on essential technologies such as Energy Storage and Monitoring, Automotive Health Monitoring, Calibration and Diagnostics, and Tribology. Prof. V. Ramgopal Rao shared his view on electric mobility and a roadmap on the transition. Prof. B.K. Panigrahi of Department of Electrical Engineering has been appointed as the first Head of CART.


IIT Delhi ranks in top 200 in QS World University Ranking 2020

• IIT Delhi along IIT Bombay and IISc Bangalore have been ranked among top 200 in the prestigious Quacquarelli Symonds (QS) World University Rankings for 2020. IIT Bombay has lead the ranking from India with 152 position while IIT Delhi was ranked 182 this year’s edition. Other IITs at Madras, Kharagpur, Kanpur, Roorkee & Guwahati and University of Delhi have found place in the ranking. O. P. Jindal Global University, Sonipat has been included in the list for the very first time.

International Delegations received at IIT Delhi

A. Skillfuture Singapore 06 June 2019
B. Weizmann Institute of Science, Israel 06 June 2019
C. Embassy of China 21 June 2019
D. University of Liverpool, England 28 June 2019
IIT-Delhi alumni association set up a library in Pahari village

- A modern library has been setup by IIT Delhi Alumni Association at the Government High School in Pahari village on June 02, 2019. The library was inaugurated by the Director, Professor V. Ramgopal Rao and can be accessed 24 Hours by students of classes six and above. It includes a modest infrastructure of five computers, free internet and books and secured by 16 CCTV camera. The prime objective of the library is to provide support to rural children in preparing for the administrative services and other competitive exams.


Cleantech Startup Chakr Innovation raises $2.7 Mn Funding

- Chakr Innovation, a team of engineers and innovators from IIT Delhi has raised $2.7 Mn (INR 19 Cr.) as a fresh funding from Indian Angel Network, Jyoti Sagar and IDFC Parampura funds. The funds shall be used to scale company's productivity and expand its operations across more than 12 cities in the next 18 months. Chakr is a cleantech start-up, founded by IIT Delhi graduates Kushagra Srivastava, Arpit Dhupar and Prateek Sachan. They have developed world's first retro-fit emission control device for diesel generators, the device can capture over 90% of particulate matter emissions from the exhaust of diesel generators.

- Chakr Innovation is focussed on solving the vehicular pollution issue, Kushagra Srivastava, founder and CEO added in statement, “The world-class network of IAN mentors will help us scale faster and realise our vision of cleaning the air faster. We also look forward to working with the government of India to help achieve the national level target of 20%-30% reduction of PM2.5 and PM10 concentration by 2024 as proposed under the National Clean Air Programme”.

- Padmaja Ruparel, founding partner of IAN Fund mentioned, “IAN Fund is focused on supporting innovative ventures catering to a need / pain point in the country – and pollution is one such area which does need a quick solution. Our investment in Chakr Innovation demonstrates IAN’s focus on national imperatives and helping build high growth sustainable companies with an impact”.

- For more details, please refer the News URL - https://inc42.com/buzz/cleantech-startup-chakr-innovation-raises-funding-led-by-ian/
IIT-Delhi Startup’s Innovation Tackles Air Pollution for Just Rs 10!

- Nanoclean Global Pvt. Ltd. was covered by The Better India news portal recently. Nanoclean is a start-up founded by IIT Delhi alumni, Prateek Sharma, Tushar Vyas and Jatin Kewlani and supported by IIT faculty, Prof. Ashwini Agrawal and Prof. Manjeet Jassal. Nanoclean has developed a low-cost transparent nasal filter that prevents dust and air pollutants, especially PM 2.5 from entering in the body. It is estimated that seven million people are killed by air pollution worldwide and World Health Organisation's (WHO) data states that nine out of ten people breathe air contaminated with high level of pollutants. According to Centre for Science and Environment (CSE), the life expectancy in India has reduced by 2.6 years from the impacts of air pollution. The combined effect of outdoor particulate matter (PM 2.5), ozone and household air pollution is the third highest cause of death in India.

- As the name suggests, Nanoclean has been developing nanotechnology based low-cost air pollution preventive solutions and air filtration systems. The start-up was awarded the National Startups Award in 2017 and is also recognised among the top 25 technical startups from over 118 countries by the Republic of Korea. It is the only Indian Start-up to be selected by the Hong Kong government among Top 100 Startups in the World. Their product, Nasofilter, uses nanotechnology and can prevent 90% PM2.5 and 95% PM10 particles entering into one's respiratory system. The company has developed Nanoclean AC filters, which removes PM2.5 and other Micro-Particle pollutants from the indoor air. One may buy these products on Nanoclean's web portal and Amazon or, at Apollo Pharmacy stores.

- For more details, please refer the News URL - https://www.thebetterindia.com/185965/iit-innovation-nasal-filter-air-pollution-start-up-low-cost/

iSAFE Assist - a 24x7 emergency app by IIT-Delhi students and alumni

- iSAFE Assist, an application with India’s first integrated 24X7 helpline to trigger Emergency Care and Roadside Assistance is launched by IIT Delhi students and alumni. The project was launched in May by Union ministry of road transport and highways and consists a dedicated women assistance service.

- Amar Srivastava, an alumnus of IIT Delhi started an awareness campaign, triggered by an accident of a student. The activity later turned into an app with a fully-operational, multilingual pan India helpline. The team consists of over 6200+ Authorized Service Providers in 28 states and 2000+ cities/towns and offers towing service, emergency fuel delivery, cab assistance and more.

- For more details, please refer the News URL- https://timesofindia.indiatimes.com/city/delhi/iit-students-alumni-come-up-with-24x7-emergency-app/articleshow/69885409.cms
Flexmo Crutches, one-of-a-kind crutch for all terrains, by IIT Alumnus

- Flexmotiv, a start-up founded by IIT Delhi alumnus Arvind Suresh Ambalapuzha and Adepu Srinivas in 2017, was recently covered by Yourstory news portal. Flexmotiv builds Flexmo Crutches that can be used in all terrain and are anti-slip in nature. It is a self-standing crutch and much comfortable in use and requires less effort during movement. Start-up is incubated at IIT Delhi’s center - Foundation for Innovation and Technology Transfer. IIT Delhi had provided a seed grant to establish the proof of concept and AIIMS Delhi has also joined hands in developing the product. A formal launch on August 10, 2019 is announced by the Flexmotiv team.

- Read the full story at – https://yourstory.com/2019/05/iit-delhi-startup-flexmotiv-medtech-crutches

Alternative Energy Firm ReNew Power Raises $300 Mn Via Rights Issue

- ReNew Power, a clean energy firm founded by IIT Delhi alumnus, Sumant Sinha, has raised $300 Mn through a rights issue. Sinha mentioned in his statement that – “The rights issue will enable our existing investors to deepen their investment in ReNew reflecting their continued faith in the Indian renewable energy market. The proceeds of the issue will be used primarily as capex for our existing pipeline of projects”.

1969 Golden Jubilee Endowment* - Rs.1.05 Cr.
1983 Pearl Reunion Endowment* - Rs. 75.91 L
1984 Pearl Reunion Endowment* - Rs. 62.35 L
1994 Silver Jubilee Endowment* - 1.96 Cr
*Cumulative fund

Prof. Nirmal Prasad Jain Scholarship  Rs. 1 L

CSE Acceleration Fund Rs. 4.06 L

O P Gupta Gold Medal Rs. 4.70 L
SAVE THE DATE

1. SILVER JUBILEE REUNION (1995 BATCH)
   December 20-22 2019

2. PEARL REUNION (1985 BATCH)
   December 27-29 2019
How to give back to IITD

1. If you wish to donate in Indian Currency, these are the options:
   NEFT/Wire Transfer/Cheque

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   Cheque mailing address: Room No. AD 212, Dean (Alumni Affairs and International Programmes), Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016, INDIA

2. If you are donating in Foreign Currency, these are the options:
   (A) Through IITDEF in USA (Tax Benefit Available):

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<td>Account Name and Address</td>
<td>IIT Delhi Excellence Foundation, Inc. 571 Central Avenue, Suite 105 [11], New Providence, NJ 07974</td>
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   Cheque mailing address: IITD Excellence Foundation
   C/O Amit Kumar, 1070 Coleman Avenue, Menlo Park, CA 94025
   Phone: +91-011-26591713
   Email: deanaaip@admin.iitd.ac.in, jitdef@amitk.me

   (B). You can also directly wire transfer to IITD Account but in this case tax benefits of US will not be available:

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   Further Detail:
   http://alumni.iitd.ac.in/payment_options.html

Contact:
Dean Alumni Affairs & International Programmes
Tel.: +91-11-26591713, 7210
E-mail: deanaaip@admin.iitd.ac.in

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