

IIITB - August 2019 Updated

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Dear All,

It has been brought to our notice that not all of you have received the August 2019 edition of the IIITB newsletter. Hence, we are sending out this email with the MailChimp version given below and link to download the pdf version of the newsletter. Our apologies if you are getting multiple emails regarding the newsletter. We highly appreciate the readership of IIITB newsletter.

Regards,

IIITB Newsletter Team

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Newsletter
August 2019



Inside this Issue

- FROM THE DIRECTOR'S DESK
- CAMPUS NEWS
- CAMPUS CALENDAR SEPTEMBER 2019

From the Director's Desk



As always, August marks new beginnings! August is the month when the new academic year begins with new students joining in, and the old students returning to campus after the summer break. All classes have started in full swing as Term I of this Academic year begins. I take this opportunity to extend a hearty welcome to each and every student and wish them the very best during their stay at IIIT Bangalore. Back at home, we will be commemorating an exciting landmark - 20th Foundation Day on September 15 and launching the year-long: "20th Year celebrations".

Elsewhere in the world, on August 2, CMU researchers reported

in "Science", details of a new technique to 3D bioprint tissue scaffolds out of collagen - coming closer to 3D print a full-sized human heart (<https://engineering.cmu.edu/news-events/news/2019/08/01-feinberg-science-paper.html>). Yet another interesting development was reported on August 21, in the field of Mathematical Biology, with "Mathematical model unlocks the secrets of vision", a collaborative work between Neuroscientists and Mathematicians, from NYU (<https://www.quantamagazine.org/a-mathematical-model-unlocks-the-secrets-of-vision-20190821/>).

For more on the on-goings in our own campus, read on!

HAPPY READING!

Campus News



Events

Term 1 (2019-20) classes began on August 1.

The **73rd Independence day celebration** was held on August 15 at IIITB. The celebration at IIITB was not just about tricolor hoisting and national anthem sung in unison! The campus hosted over 25 children from Surabhi Foundation Trust, an orphanage in Bengaluru, to spend the day with the students of IIITB.

The celebrations involved cultural programs by IIITB students as well as the children from Surabhi Foundation Trust. Tree plantation activity was also organized on the campus under HRD ministry's new campaign, "One Student One Tree".





The Puja to mark the start of the building construction of the additional floor at Ramanujan was held on August 19.



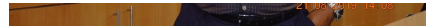
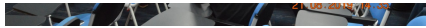
Faculty selection and promotion council meeting was held on August 21.

The Sub-committee of the Governing Body meeting (Finance & Audit) of IIITB was held on August 22

IIIT Bangalore organized the second edition of the public lecture series 'Bangalore on IT', on August 21. The lecture was delivered by Dr. Balaraman Ravindran, Head, Robert Bosch Centre for Data Science and Artificial Intelligence, and Professor of Computer Science and Engineering, IIT Madras. The title of the talk was, "Why the Recent Excitement in Artificial Intelligence?"

The video is available at: <https://www.youtube.com/watch?v=zFEjRdiHKBU>





"Making Math Count" Hackathon by Gyanome Foundation and IIITB was held during August 19-20. The hackathon engaged six Navodaya teachers from different districts of Karnataka, including a maths communicator, Mr. Gurmeet Singh. Prof. Sujatha Ramadorai introduced the audience to the Gyanome Foundation. Prof. Ramesh Sundararaman then spoke about the collaboration between IIITB and the Foundation. The pressing issues in mathematics education, including lack of content, need for a helping hand for teachers, need of translation of content in vernacular languages and others were discussed. The second day saw discussions on the topic of spreading mathematics across cultures and various ways to convert existing content to vernacular languages, which could also be replicated into short stories.



To help students achieve their entrepreneurial dreams, IIITB has come up with an on-campus E-cell. Inaugurated on August 23, the cell will act as a bridge between the students, staff, research labs, institute's Innovation Centre and alumni, in addition to helping students in spotting business ideas and executing them successfully. With E-cell, students will get to experience the entire process - from developing their startup ideas to prototyping, testing and finally pitching them to investors.



An interactive session was organized by the students (IIITB E-Cell) and startups (IIITB Innovation Center) with **Ms. Radha Kizhanattam, Investment Director, Unitus Ventures, on August 27.**

IIITB signed a Memorandum of Understanding (MoU) with the Philippine Statistics Authority, the Republic of the Philippines on August 28. The MoU will drive the adoption of the Modular Open Source Identity Platform (MOSIP) in the implementation of PhilSys, a foundational national ID system for all citizens of the Philippines and qualified resident aliens.

MOSIP is a global digital public good that countries and other ID issuing organisations can adapt and customize to develop a foundational ID system. It empowers user organisations to remain in control of the process of conceptualization, development, and maintenance of critical digital infrastructure such as national ID systems and

addresses the problems arising out of closed proprietary technologies and consequent vendor lock-in.

The Understanding lays out the framework of cooperation between the signatories on the transfer of code and documentation, transfer of knowledge, support in the adaptation of the platform, and support in capacity building of the Philippine Statistics Authority in implementation of PhilSys.

In accordance with its mandate, IIITB will support the Philippine Statistics Authority over the next three years in the creation of an ID system that is inclusive, safe and empowering to individuals.

IIITB hosted **"AI Conclave: Voice, Vision, Data Intelligence"**, jointly with Samsung SRI-B (Bangalore), co-hosted by MINRO, on August 30. Speakers from both Samsung and IIITB gave talks and exchanged ideas for future collaboration. Dr. Vikram Vij, Vice President from SRI-B gave the Key-note talk. Prof. Sadagopan, inaugurated the conclave, and Mr. Tridib Roy Choudhury, the Chief Program Officer, MINRO, welcomed the participants. Prof. Ramasubramanian, IIITB and Dr. Ajit Bopardikar, Samsung coordinated the day-long event.



Publication Including Presentations

"Effect of confinement on structure, energy and vibrational spectra of (HF)_n, n = 1-4" authored by Prof. Brijesh Kumar Mishra has been published in the Journal: Chemical Physics Letters, 136670, Volume 733, 2019. The co-authors of the paper are P. R. Remya, C. N. Ramachandran and N.Sathyamurthy.

Prof. Sachit Rao presented the paper titled **"Design of Terminal Sliding Modes in the Presence of Control Bounds"** at the 3rd IEEE Conference on Control Technology and Applications (CCTA 2019), at The City University of Hong Kong, Hong Kong during August 19-21.



Academic Milestones

August 09: Kavitha Narayanan (PH2016004) completed her Comprehensive Examination.

Faculty

Balaji Parthasarathy delivered a talk titled **"Digitization: Alienation and Cohesion in the Economy and Society"** at the Workshop on Human Future in Digital Era, organised by the Indian Social Science Academy, at the National Institute of Advanced Studies, Bangalore, on August 5.

Balaji Parthasarathy was invited by the Research and Information Systems for Developing Countries as a panelist to discuss University-Think Tank connections, at the Delhi Process V International Conference on **"South-South and Triangular Cooperation: Exploring New Opportunities and New Partnerships Post-BAPA+40"**, in New Delhi during August 22-23.

Prof. Srinivas Vivek chaired the session on **"Hardware Masking"** at the Conference on Cryptographic Hardware and Embedded Systems (CHES) 2019 held during August 25-28 in Atlanta, USA.

URL: <https://ches.iacr.org/2019/program.shtml>

Profs. Sujit Kumar Chakrabarti, Srinath Srinivasa, and Ramesh Sundararaman visited Huawei Technologies, Bangalore, on August 27. They presented an overview of their research project titled **"Research led Collaborative, Social Innovation"** and interacted with the senior technical staff of Huawei.



Samvaad

August 5: **"Tour de Crypto"** by Prof. Bhavana Kanukurthi, Computer Science and Automation, IISc.

For video: <https://videoken.com/embed/-hRhWqTRotU>



August 12: **"Cryptanalysis of a Protocol for Efficient Sorting on Homomorphically Encrypted Data"** by Prof. Srinivas Vivek, IIIT Bangalore.

For video: <https://videoken.com/embed/wGEGIowB0zc>



August 19: **"Security in Multi-hop Wireless Networks"** by Prof. Tricha Anjali, Ms. Anjana Prabhakar, and Ms. Priti Kumar, all from IIIT Bangalore.

For video: <https://videoken.com/embed/-aEzJOdFJrY>





August 26: **"Fault-tolerant Distributed Consensus : The Holy Grail Problem of Distributed Computing"** by Prof. Ashish Choudhury, IIIT Bangalore.

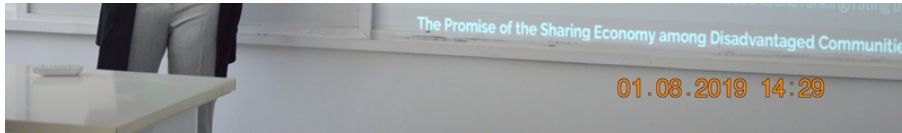
For video: <https://videoken.com/embed/NzTrTyKviQI>



Guest Talks

August 1: **"Designing and Envisioning Digital Tools for Low-resource Job Seekers in the U.S."** by Dr. Tawanna Dillahunt, University of Michigan.





Visitors

August 01: Mr. Jangoo Dalal, Managing Director, Technocrat

August 2: Prof. H A Ranganath, Chairman & Prof. Somayajulu, Director, IIITDM Kurnool.

August 06: Dr. R. Venkatesha Prasad, TU Delft

August 7: Dr. Martin Zeitler, Hof University

August 08: Prof. Uday Salunkhe, Group Director -WeSchool

August 16: Dr. Swami Manohar, Director, Microsoft Research

August 26: Dr. C. Prabhakar Reddy, Presidency College, Bengaluru

August 27: Dr. C S Kedar, IAS(Retd), Director, Bionic Yantra

August 27: Mr. J S Sharma & Mr. Pradeep Srivastava, IITK

August 27: Dr. Senthil Kumar, Principal, SONA College, Salem



Campus Calendar for September 2019

September 5-7: ADCOM 2019

September 15: 20th Foundation Day

September 25: 21st Annual General Body Meeting

September 25-October 01: Midterm examinations



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