



Indian Statistical Institute
Director's Report
8th Meeting of the Council (2016-2018)
June 9, 2018



Honors/Achievements

- ▶ Sushmita Mitra, MIU, ISIK and Bhargab Bhattacharyya, MIU, ISIK
 - ▶ INAE Chair Professor
- ▶ Madhura Swaminathan, EAU, ISIB
 - ▶ Appointed Non-Official Director, Board of Union Bank of India
- ▶ Rajat De, MIU, ISIK
 - ▶ Fulbright-Nehru Academic and Professional Excellence Fellowship (Flex Award)
- ▶ Umapada Pal, CVPR, ISIK and Dipti Mukherjee, ECSU, ISIK
 - ▶ Fellow of West Bengal Academy of Science and Technology at CVPRU
- ▶ 43rd Indian Society of Human Genetics Meeting, Hyderabad
 - ▶ Aditi Chandra, SRF, HGU
 - ▶ Young Scientist Award
 - ▶ Baidehi Basu
 - ▶ 3rd Prize, Best Poster Award

Honors/Achievements

- ▶ **Debasis Mishra, EPU, ISID**

- ▶ The Social Choice and Welfare prize 2018 by Society for Social Choice and Welfare

- ▶ **Satya R. Chakravarty, ERU, ISIK**

- ▶ Selected as member of expert group, UNDP, New York
- ▶ Work on Multidimensional Well-Being
 - ▶ book “Analyzing Multidimensional Well-Being: A Quantitative Approach” , John Wiley
 - internationally acclaimed by Professors of reputed Universities /Institutions like Paris School of Economics, France; Universit catholique de Louvain, Belgium; Vanderbilt University, USA and Bar Ilan, Israel
 - Stimulated live debates in UNDP recently

Students' Meet with Eminent Academicians ISI-NE Tezpur Centre March 2018



Indian Statistical Institute
North-East Centre, Tezpur



***Celebrating the 125th Birth Year of the Founder of Indian Statistical Institute
Professor Prasanta Chandra Mahalanobis***

'Students' Meet with Eminent Academicians- 2018' **(SMEA-2018)**

The Indian Statistical Institute is holding year-long celebrations to pay homage to its Founder, Professor Prasanta Chandra Mahalanobis, on his 125th birth anniversary. As a part of these celebrations, the North-East Centre of the Institute will hold a special programme- 'Students' Meet with Eminent Academicians - 2018' (SMEA - 2018) - on 23rd and 24th March 2018.

This programme would be inaugurated by the Director of the Indian Statistical Institute on 23rd March 2018 at 10 A.M. in the Seminar Hall of the North East Centre.

The inaugural function will be followed by special lectures by some distinguished scientists and academicians on different subjects/ topics starting at 02:30 P.M. on 23rd March and continuing through the entire day of 24th March 2018.

The North-East Centre of the Indian Statistical Institute cordially invites you to attend the events of both the days.



Speakers

- **Dr. RB Barman**
 - **Chairman, Natl Stat Comm**
- **Prof. RS Kulkarni**
 - **Former Director, HRI**
- **Professor PP Majumder**
 - **DBT Distinguished Professor,
Former Director NIBMG and
Professor (Retd. ISI)**



Conference/Workshops

- ▶ India Biodiversity Meet – 2018
 - ▶ Theme : Biodiversity, food security and climate change
- ▶ Workshop on Statistical Methods and R Programming for Biologists, March, 2018
- ▶ World Bank – ISI Workshop on Jobless Growth, March, 2018
- ▶ Public Economic Workshop in association with DSE, March 2018

Workshop on Contemporary Rural Issues in India

- ▶ March 2018: EAU, B'lore Centre



Workshop on Machine Intelligence and Applications

▶ March 2018: Silver Jubilee of MIU



Intl Workshop on Pattern Analysis and Application

▶ CVPR Unit



Workshop on Morphometrics and its Applications in Paleontology

- ▶ Geological Sciences Unit and UC Riverside
- ▶ Main Speaker: Prof. Nigel Hughes
- ▶ Coordinator: Dhurjati P. Sengupta, GSU, ISIK
- ▶ Attendees: IISER Mohanpur, ISM Dhanbad, IIT Kharagpur, Jadavpur University, Calcutta University, Presidency University and Durgapur Government College



Important Results/Publications

▶ Studies on

- ▶ Why farmers do not get fair price:
 - ▶ Asymmetric Information and Middleman Margins: An Experiment with Indian Potato Farmers
 - ▶ Sandip Mitra, Dilip Mookherjee, Maximo Torero and Sujata Visaria
 - ▶ Review of Economics and Statistics, MIT Press, March 2018 [**27 citations (GS), IF 2.926**]
 - ▶ **Ranked 4th in Social Sciences, Mathematical Methods, 14th in Economics and Finance Journals (out of 2334) as per IDEAS/RePEc**
- ▶ Function of iron stabilization in cell adaptation to withstand cold shock
 - ▶ Iron homeostasis regulates facultative heterochromatin assembly in adaptive genome control
 - ▶ PS Gallagher, M Larkin, G Thillainadesan, J Dhakshnamoorthy, V Balachandran, H Xiao, C Wellman, R Chatterjee, D Wheeler and SIS Grewal
 - ▶ Nature Structural & Molecular Biology 2018 [**IF 12.595**]

Important Results/Publications

- ▶ A result by Arijit Ghosh (Ramanujan Fellow) has been used to solve a major conjecture by Gromov in Differential Geometry
- ▶ S Patranabis-Deb, T Majumder, S Khan, Lifestyles of the Palaeoproterozoic stromatolite builders in the Vempalle Sea, Cuddapah Basin, India, Journal of Asian Earth Sciences 2018
- ▶ SS Das, S Saha, S Bardhan, S Mallick and WD Allmon, The oldest turritelline gastropods: from the Oxfordian (Upper Jurassic) of Kutch, India, Journal of Palaeontology, 2018
- ▶ Dilip Saha, Arnab Sain, Multiple convergences along an Archean craton margin: Clues from Proterozoicophiolite remnants, granites and granulite domains along the SE margin of India, Journal of Geodynamics, 2018

Visitors to ISI

- ▶ Prof. Sanjay Ranka, Fellow IEEE, University of Florida, USA
- ▶ Prof. Gautam Mandal, FNA, TIFR, Mumbai
- ▶ Prof. Jens Rittscher, University of Oxford, UK
- ▶ Dr. Pradip Bose, Fellow IEEE, IBM Yorktown Heights USA
- ▶ Prof. Janos Pach, Alfred Renyi Institute of Mathematics, Hungary
- ▶ Prof. Anil Maheshwari, Carlton U., Ottawa, Canada
- ▶ Prof. Pavel Valtr, Charles U., Prague, Czech Republic
- ▶ Prof. Hans Pieter Ditmarsch, LORIA, France
- ▶ Prof. Robert Wille, Johannes Kepler U., Austria
- ▶ Dr. Christopher Edmonds, International Tokyo University, Japan
- ▶ Prof. Charles A. Weitz, College of Liberal Arts, Temple University, Philadelphia

Some More Visitors to ISI

- ▶ Madhav S. Aney, Singapore Management University
- ▶ Alok Bhargava, University of Maryland
- ▶ Mihir Bhattacharya, Aix-Marseille School of Economics
- ▶ Chetan Dave, NYU Abu Dhabi
- ▶ Amrita Dhillon, King's college, London
- ▶ Dimitrov, Dinko, Saarland University
- ▶ Pawan Gopalakrishnan, RBI Mumbai
- ▶ John Hassler, Stockholm University
- ▶ François Maniquet, UCLouvain
- ▶ Dilip Mookherjee, Boston University
- ▶ Karthik Muralidharan, University of California, San Diego
- ▶ Shige Serizawa, Osaka University
- ▶ Mari Tanka, Japan Society for the Promotion of Science, Japan
- ▶ S. Raghul Venkatesh, Aix-Marseille School of Economics

Some More Visitors to ISI

- ▶ Prof. Axel Hofman, Department of Geology, University of Johannesburg, South Africa
- ▶ M.J. Benton, FRS, University of Bristol, UK
- ▶ Prof.M. E. Tucker, University of Bristol, UK



New Initiatives

- ▶ **MoU with Quality Council of India (QCI):**
 - ▶ Evaluation of large government projects.
 - ▶ Restructured Accelerated Power Development and Reform project of Power Ministry
 - ▶ reducing the Aggregate Technical & Commercial losses
 - ▶ outlay of over Rs. 51577 Cr.
 - ▶ ISI contribution:
 - problem formulation, survey design, identification of secondary data and data analysis
 - Led by: Amitava Bandyopadhyay and Sumitra Purkayastha, ISI Kolkata

- ▶ **MoU with WIPRO:**
 - ▶ training and proposing solutions for complex business problems
 - ▶ Led by: Amitava Bandyopadhyay, Ranjan Sett, D K Manna, Biswabrata Pradhan, Abhijit Gupta, Arup K Das, Sugata Adhikari

Projects/Consultancy

- ▶ ISI has been helping Ordnance Factory Board (OFB) to transform the defence production system
 - ▶ Member, Ammunitions & Explosives presented plan to Secretary, Defence Production
 - ▶ Plan accepted
 - ▶ Agreement being extended to cover three more factories
 - ▶ Led by: Amitava Bandyopadhyay, Ranjan Sett, Arup K Das, Abhijit Gupta, G Murali Rao, A L N Murthy and Ashok Sarkar - SQC Division
- ▶ Projects with DRDO on software verification and security
 - ▶ Led by: Ansuman Banerjee, ACMU, ISIK
- ▶ Approximate Computing for Robotic Applications
 - ▶ TCS Innovation Lab
 - ▶ Led by: Ansuman Banerjee, ACMU, ISIK

Projects/Consultancy

- ▶ **Ministry of Agriculture and MSSRF**
 - ▶ Price stability of key agricultural crops
 - ▶ Led by: Molly Chattopadhyay and Madhura Swaminathan, EAU, ISIB
- ▶ **Ministry of Finance**
 - ▶ Evaluation of State Finance for the XV Finance Commission
 - ▶ Led by: Monishankar Bishnu, EPU Delhi
- ▶ **Government of West Bengal**
 - ▶ Base Line Survey of Horticulture Development in Paschimanchal Districts
 - ▶ Led by: Manoranjan Pal and Haricharan Behera, SSD

More Updates: Initiatives under active consideration

- ▶ Indian Railways (Amitava Bandyopadhyay):
 - ▶ Improvement of Railway Safety System
- ▶ Delhi Police (Amitava Bandyopadhyay):
 - ▶ Reduction of Fatalities due to Road Accidents
 - ▶ Statistical Approach to Measure and Reduce Traffic Congestion in Large Cities
- ▶ Ministry of Coal (Debasis Sengupta):
 - ▶ Development of National Coal Index to reflect the movement of market price of coal

Thank you!