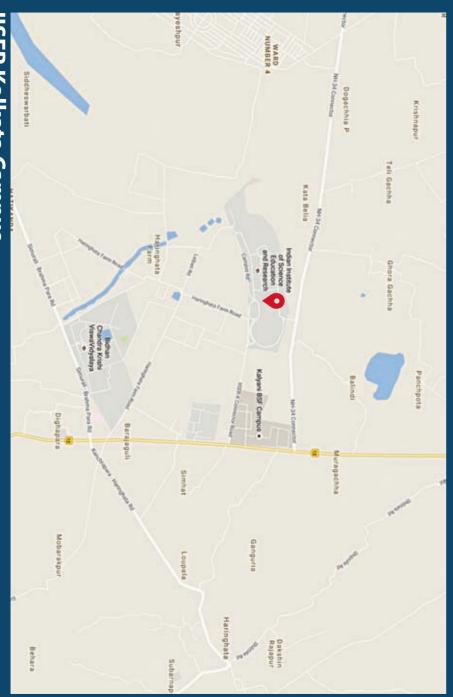
ISER Kolkata Campus



VIJYOSHI - 2016 🛫

National Science Camp

5 - 7 December 2016

A Program of Department of Science and Technology Govt. of India

Organized by

Kishore Vaigyanik Protsahan Yojana (KVPY) **IISER Kolkata and INSPIRE Program**







FUNDED BY



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Kishore Vaigyanik Protsahan Yojana (KVPY), IISc Bangalore



Indian Institute of Science Education and Research Kolkata



INSPIRE Program, Govt. of India

COORDINATORS

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Director

Indian Institute of Science Education and Research Kolkata, Mohanpur – 741 246

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Prof. G. Mugesh

Convener

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Programme Venue

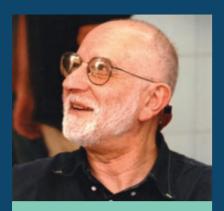
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Prof. Sir Michael Victor BerryMelville Wills Professor of Physics
(Emeritus), University of Bristol

Sir Michael Victor Berry, FRS FRSE FRSA, is a mathematical physicist at the University of Bristol, England, He was elected a fellow of the Royal Society of London in 1982 and knighted in 1996. He is known for the Berry phase, a phenomenon observed in quantum mechanics and optics. He specialises in semiclassical physics (asymptotic physics, quantum chaos), applied to wave phenomena in quantum mechanics and other areas such as optics. He is also currently affiliated with the Institute for Quantum Studies at Chapman University in California



Prof. Manindra AgrawalDepartment of Computer Science and Engineering,
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Professor Manindra Agrawal, FNA, FASc. FNASc. FTWAS. FNAE is presently N. Rama Rao Chair Professor in the Department of Computer Science and Engineering in IIT Kanpur. His research interests include Complexity Theory and Computational Number Theory. He has peripheral interests in Cryptography, Complex Analysis and Combinatorics. He is recipient of numerous awards that include Padma Shri in 2013, Shanti Swarup Bhatnagar award in Mathematical Sciences in 2003. Gödel Prize in 2006. Fulkerson Prize in 2006, J. C. Bose Fellowship (2006 -2015).



Prof. Uday MaitraDepartment of Organic Chemistry
Indian Institute of Science Bangalore

Professor Uday Maitra, FNA, FASc is currently Chairman of the Department of Organic Chemistry at IISc Bangalore. His research interests include Chemistry of Bile acids, Hydrogels and Organogels, Dendrimers and Nanomaterials. He is recent of Shanti Swarup Bhatnagar Prize in Chemical Sciences in 2001, Materials Research Society of India Medal in 2009, Millennium medal in 2000 and Prof. T. Navaneeth Rao National Best Chemistry Teacher Award in 2005.



Dr. Suvendra Nath BhattachryyaPrincipal Scientist and Head,
Human Genetics Division,
Indian Institute of Chemical Biology,
Kolkata

Dr. Suvendra Nath Bhattacharyya, FAScT, is currently Principal Scientist and Head of Human Genetics Division at Indian Institute of Chemical Biology. Kolkata. His research interests include studies on mechanism of exosomal export of miRNA and its role in disease process, to look into importance of subcellular structures and organelles in post-transcriptional regulation of gene expression in human cells, to study the effect of cellular microenvironment on miRNA-mediated gene regulation in mammalian cells and to investigate the role of host cell miRNAs and other posttranscriptional factors in regulation of parasitic infection of mammalian cells. He is recipient of Shanti Swarup Bhatnagar Prize for Biological sciences in 2016, SwarnaJayanti Fellowship in 2015, NASI-Scopus Young Scientist Award in 2015, WellcomeTrust, London International Senior Research Fellowship in 2008, INSA Young Scientist Award in 2004 and many more.



Prof. Partha Pratim ChakrabartiDepartment of Computer Science
and Engineering and Director,
Indian Institute of Technology
Kharagpur

Professor Partha Pratim Chakrabarti, FNA, FNAE, FASc, is currently Director of IIT Kharagapur. His areas of interest include AI, CAD for VLSI, Embedded Systems, Algorithm Design, and Reliable & Fault Tolerant Systems. He is recipient of several honours, including the President of India Gold Medal in 1985, the Swarnajayanti Fellowship in 1998, the Shanti Swarup Bhatnagar Prize in 2000 and J. C. Bose National Fellowship in 2013.



Prof. Rabindra Nath MukherjeeDepartment of Chemistry Sciences and Director,
Indian Institute of Science Education and Research Kolkata

Professor R. N. Mukherjee, FNA, FASc, is presently Director of IISER Kolkata. His areas of research include synthetic coordination chemistry of transition metal ions with designed organic ligands, molecular (X-ray structure) and electronic structural (magnetic and spectroscopic) characterization, investigation of reactivity (chemical and redox), and understanding of metal-ligand bonding characteristics. He is recipient of special honours that include Poonam and Prabhu Goel Chair Professorship at IIT Kanpur in 2011, J. C. Bose Fellowship in 2008, CRSI Silver Medal in 2011. CRSI Bronze Medal in 2001, member of the Editorial Board of Inorganic Chemistry, Dalton Transactions. Inorganica Chimica Acta.



Prof. Pushpak BhattacharyyaDepartment of Computer Science
and Engineering at IIT Bombay
and Director,
Indian Institute of Technology Patna

Professor Pushpak Bhattacharyya, FNAE, is presently Director of IIT Patna. His research interests include Natural Language Processing, Machine Learning, Cross Lingual IR, Information Extraction. He is recent of Vijay and Sita Vashee Chair Professorship at IIT Bombay, P. K. Patwardhan Award for Technology Development in 2008, IBM Innovation Award in 2007, VNMM Award 2014, etc.



Prof. D. D. SarmaSolid State and
Structural Chemistry Unit
Indian Institute of Science Bangalore

Professor D. D. Sarma, FASc, FNASc, FNA, FTWAS is presently Chairman of the Solid State & Structural Chemistry Unit of IISc Bangalore. His research interest includes investigation of strongly correlated electronic systems and semiconductor nanoparticles. His is recipient of many awards that include Shanti Swarup Bhatnagar Award in 1994, H K Firodia Awards for Excellence in Science & Technology in 2013, National Research Award in Nano Science and Technology in 2009, FICCI Award 2006-07 for Innovative R&D in Life Sciences/Material Sciences/Applied Research/Space Sciences in 2008, J. C. Bose National Fellowship in 2006, G. D. Birla Award for Scientific Research in 2005, MRSI Medal in 1990, etc.



Prof. Asok Kumar MallikHonorary Distinguished Professor,
Indian Institute of
Engineering Science and Technology
Shibpur

Professor Asok Kumar Mallik, FNAE, FNASc, FASc, FNA, is presently honorary distinguished professor at IIEST, Shibpur. His areas of specialization are Mechanical Engineering, Vibration Engineering and Mechanisms. He is recipient of Distinguished Teacher Award (IIT Kanpur), INSA.



Vijyoshi - 2016 National Science Camp cordially invites you to a Cultural Evening

DOHA a group of young energetic people came together to present the songs of the soil of Bengal and the North-East in 1999. DOHAR the Bengali word, which means Chorus, following a solo lead voice, is a manifestation of the basic spirit with which this singing group was formed. Their mission is to cater the rustic songs of the soil to the urban and rural mass in its original form and flavour. They are thus the chorus of those illustrious bauls and fakirs of greater Bengal and northeast. We are also involved in an endeavour to form an archive of this treasure chest of tunes and philosophy. DOHAR also present Tagore songs accompanied with various ethnic folk instruments like DUBKI, DOTARA, BANJO, FLUTE, SHINGA, MANDIRA, KASHI. In brief, DOHAR is an endless journey of music having strong connections with the root, on one hand and going beyond all boundaries, on the other.

PROGRAMME SCHEDULE

Sunday, 4 December 2016

Registration of participants at IISER Kolkata Hostel

Time: 3 PM to 8:30 PM

Monday, 5 December 2016			
7.00 AM – 8.00 AM		Breakfast	
8:30 AM - 9:30 AM		Registration at the Venue	
9.30 AM – 10.00 AM		Inaugural Ceremony	
10.00 AM – 10.30 AM		High Tea	
10:30 AM – 11:00 AM		Group Photo Session	
11.00 AM – 12.20 PM	Lecture 1	Prof. Partha Pratim Chakrabarti Title: TBA Chair: Dr. Pradip Ghorai	
12.20 Noon –1.40 PM		Lunch	
1.40 PM – 3.00 PM	Lecture 2	Prof. Pushpak Bhattacharyya Title: The Intrigue, Excitement and Use of Natural Language Processing and Machine Learning Chair: Prof. Supriyo Mitra	
3.10 PM – 4.30 PM	Lecture 3	Dr. Suvendra Nath Bhattacharyya Title: Molecular Understanding of Life Chair: Prof. Jayasri Das Sarma	
4.30 PM – 5.00 PM		Tea	
5.00 PM – 6.20 PM	Lecture 4	Prof. Rabindra Nath Mukherjee Title: Hydrolytic Enzymes: Molecular - Level Understanding Chair: Prof. Prasanta Sanyal	
6.30 PM		Leave for accommodation	
8.00 PM – 10.00 PM		Dinner	

Tuesday, 6 December 2016			
7.00 AM – 8.00 AM		Breakfast	
9.30 AM – 10.50 AM	Lecture 5	Prof. Sir Michael Berry Title: Nature's Optics and Our Understanding of Light Chair: Prof. P. K. Panigrahi	
10.50 AM – 11.10 AM		Tea	
11.10 AM – 12.30 PM	Lecture 6	Prof. Asok Kumar Mallik Title: Magical Mathematics of Ramanujan Chair: Dr. Punyasloke Bhadury	
12.30 PM – 2.00 PM		Lunch	
2.00 PM – 3.20 PM	Lecture 7	Prof. Uday Maitra Title: Chemistry is Fun! Chair: Prof. Samaresh Bhattacharyya	
3.30 PM		Tea	
6.00 PM – 7.00 PM		Cultural Programme	
8.00 PM – 10.00 PM		Special Dinner for speakers, students, officials and invited guests	

Wednesday, 7 December 2016			
7.00 AM – 8.00 AM		Breakfast	
9.00 AM – 11.00 AM		Scientific Demonstration	
11.30 AM – 1.00 PM		Lunch	
1.00 PM – 2.20 PM	Lecture 8	Prof. D. D. Sarma Title: Small is Beautiful: Glimpses into Nano Science and Technology Chair: Dr. Pradipta Purkayastha	
2.30 PM – 3.00 PM		Tea	
3.00 PM – 4.20 PM	Lecture 9	Prof. Manindra Agrawal Title: The P≠NP Hypothesis Chair: Prof. R. N. Mukherjee	
4.30 PM – 5.30 PM		Concluding Ceremony: Students' / Speakers' Feedback	
5.30 PM		End of Camp	

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