

Workshop on Grant Writing

(December 7 – 12, 2020)

An outreach program under MoE-STARS

PROGRAM SCHEDULE

Domain	Page
Physical Sciences (Dec 7, 2020)	2
Nano Sciences (Dec 8, 2020)	3
Biological Sciences (Dec 9, 2020)	4
Earth Sciences (Dec 10, 2020)	5
Chemical Sciences (Dec 11, 2020)	6
Mathematics and Data Sciences (Dec 12, 2020)	7

Physical Sciences

Date: December 07, 2020

Workshop Schedule

Session / Timings	Topic	Expert
9:15 AM – 9:30 AM	Login and get-connected	-
9:30 AM – 9:45 AM	Welcome and Introduction	Prof. Madan Rao NCBS Bengaluru
Session I Chair: Prof. Madan Rao		
Talk - 1 9:45 AM – 10:30 AM	Accessing common research infrastructure and my experiences in submitting and evaluating risky proposals ^{SEP}	Prof. Ambarish Ghosh IISc, Bengaluru
Talk - 2 10:30 AM – 11:15 AM	Theoretical research in quantum science and and the potential for translation to technology	Prof. Subroto Mukerjee IISc, Bengaluru
Session II Chair: Prof. Ambarish Ghosh		
Talk – 3 11:15 AM – 12:00 PM	Quantum Technologies, opportunities and challenges	Prof. Arindam Ghosh IISc, Bengaluru
Talk – 4 12:00 PM – 12:45 PM	How to structure and write a scientific research proposal	Shobhana Narasimhan JNCASR Bengaluru
12:45 PM – 2:00 PM	Lunch Break	-
Session III Chair: Prof. Subroto Mukerjee		
Talk – 5 2:00 PM – 2:45 PM	From idea to translation: Challenges in convincing funders that your research can sell	Prof. Ayan Banerjee IISER Kolkata
Talk – 6 2:45 PM – 3:30 PM	Budgetary considerations in drafting proposals	Prof. Anindya Das IISc, Bengaluru
Discussion 3:30 PM – 4:30 PM	Interaction with participants and Concluding remarks	Team of experts

Nano Sciences**Date: December 08, 2020****Workshop Schedule**

Session / Timings	Topic	Expert
9:15 AM – 9:30 AM	Login and get-connected	-
9:30 AM – 9:45 AM	Introductory statement	Prof. Samit K. Ray S. N. Bose National Center for Basic Sciences, Kolkata
Session I Chair: Prof. Prosenjit Sen IISc Bangalore		
Talk - 1 9:45 AM – 10:30 AM	Science-Engineering-Technology Nexus for Translational Research in Nano-Science and Technology	Prof. Indranil Manna IIT Kharagpur
Talk - 2 10:30 AM – 11:15 AM	Energetic ions for controlled nanostructuring and nano-electronics	Prof. D. Kanjilal IUAC, Delhi
Session II Chair: Prof. Ambarish Ghosh IISc Bangalore		
Talk – 3 11:15 AM – 12:00 PM	Do I Really Know What I Wish to Pursue in Academic Research?	Prof. Arun Chattopadhyay IIT Guwahati
Talk – 4 12:00 PM – 12:45 PM	How to utilize the distributed national nanotechnology infrastructure for your research and projects?	Prof. Rudra Pratap IISc Bangalore
12:45 PM – 2:00 PM	Lunch Break	-
Session III Chair: Prof. Abhishek Singh IISc Bangalore		
Talk – 5 2:00 PM – 2:45 PM	Challenges and Opportunities of Nanomaterials Research for Potential Applications	Prof. Amitava Patra INST, Mohali
Talk – 6 2:45 PM – 3:30 PM	Proposal on Nanotechnology based Healthcare Solutions	Prof. Samir K. Pal SN Bose Centre, Kolkata
Discussion 3:30 PM – 4:30 PM	Interaction with participants and Concluding remarks	Prof. Samit K. Ray & Prof. Abhishek Singh

Biological Sciences**Date: December 09, 2020****Workshop Schedule**

Session / Timings	Topic	Expert
9:15 AM – 9:30 AM	Login and get-connected	-
9:30 AM – 9:45 AM	Welcome and Introduction	Prof. Anand K Bachhawat IISER Mohali
Session I Chair: Prof. Saumitra Das, NIBMG, Kalyani		
Talk - 1 9:45 AM – 10:30 AM	Research Proposals development and writing: Indian Perspective	Prof. Alok Bhattacharya Ashoka University
Talk - 2 10:30 AM – 11:15 AM	Writing a Successful Grant Application	Prof. Shahid Jameel Director, Trivedi School of Biosciences, Ashoka University (Former CEO, DBT-Wellcome India Alliance)
Session II Chair: Prof. Kavita Isvaran, IISc Bangalore		
Talk – 3 11:15 AM – 12:00 PM	Asking the right questions takes as much skill as giving the right answers	Prof. Maitrayee Dasgupta Dept of Biochemistry Calcutta University
Talk – 4 12:00 PM – 12:45 PM	Some do's and don'ts in preparing a good grant proposal	Dr. Ramesh Sonti, CCMB Hyderabad (Former Director, NIPGR, New Delhi)
12:45 PM – 2:00 PM	Lunch Break	-
Session III Chair: Prof. B. Gopal, IISc Bangalore		
Talk – 5 2:00 PM – 2:45 PM	Ready to Script a Proposal: have you done your homework?	Dr. Lolitika Mandal Associate Professor IISER Mohali
Group discussion 2:45 PM – 4:00 PM	Interaction with participants and Concluding remarks	Prof. Saumitra Das Prof. B. Gopal Prof. Anand K Bachhawat Prof. Kavita Isvaran

Earth Sciences

Date: December 10, 2020

Workshop Schedule

Session / Timings	Topic	Expert
9:15 AM – 9:30 AM	Login and get-connected	-
9:30 AM – 9:45 AM	Welcome and Introduction	Prof. S. Dasgupta IISER, Kolkata
Session I Chair: Prof. Kusala Rajendran, IISc, Bangalore		
Talk - 1 9:45 AM – 10:30 AM	Innovative research in the geosciences in the Indian context: Examples from the past decade	Prof. S.K. Tandon IISER, Bhopal
Talk - 2 10:30 AM – 11:15 AM	Impact of a proposal and its translational potential for use by the society at large / or generation of knowledge	Dr.V.M. Tiwari NGRI, Hyderabad
Session II Chair: Dr. R. Srinivasan, IISc, Bangalore		
Talk – 3 11:15 AM – 12:00 PM	Making Proposals for Scientific grants effective, through economy of words, -clarity of Ideas, frugality of resources and - Assurance of Science Delivery	Prof. A.K. Singhvi PRL, Ahmedabad
Talk – 4 12:00 PM – 12:45 PM	Ideating successful research proposals	Prof. Malay Mukul IIT Bombay
12:45 PM – 2:00 PM	Lunch Break	-
Session III Chair: Prof. Ramananda Chakrabarti, IISc, Bangalore		
Talk – 5 2:00 PM – 2:45 PM	Writing "good" research proposals- some dos and don'ts	Prof. P. Sengupta Jadavpur University, Kolkata
Talk - 6 2:45 PM – 3:30 PM	Important questions in Earth Sciences	Dr. R. Srinivasan IISc, Bangalore
Discussion 3:30 PM – 4:00 PM	Interaction with participants and Concluding remarks	Prof. S. Dasgupta Prof. Ramananda Chakrabarti

Chemical Sciences**Date: December 11, 2020****Workshop Schedule**

Session / Timings	Topic	Expert
9:15 AM – 9:30 AM	Login and get-connected	-
9:30 AM – 9:45 AM	Welcome and introduction	Prof. Sourav Pal, IISER Kolkata
Session I Chair: Prof. Sourav Pal		
Talk - 1 9:45 AM – 10:30 AM	Effective Grant writing- Domain of Organic Chemistry	Prof. Vinod K. Singh IIT Kanpur
Talk - 2 10:30 AM – 11:15 AM	Grant writing in inter-disciplinary area of chemical biology	Prof. Ruchi Anand IIT Bombay
Session II Chair: Prof. Swadhin Mandal, IISER Kolkata		
Talk – 3 11:15 AM – 12:00 PM	Materials: Industry-academia projects with focus on multi-institution multi-PI projects	Prof. K. Vijayamohanan IISER Tirupati
Talk – 4 12:00 PM – 12:45 PM	Effective Grant writing- Domain of Inorganic Chemistry	Prof. Pradyut Ghosh IACS Kolkata
12:45 PM – 2:00 PM	Lunch Break	-
Session III Chair: Prof. S. Sampath, IISc Bangalore		
Talk – 5 2:00 PM – 2:45 PM	Effective Grant Writing: Domain of Theoretical Chemistry	Prof. Amalendu Chandra IIT Kanpur
Talk – 6 2:45 PM – 3:30 PM	Effective Grant Writing- Domain of Inorganic Chemistry	Prof. R Murugavel IIT Bombay
Discussion 3:30 PM – 4:30 PM	Interaction with participants and Concluding remarks	Prof. Sourav Pal and Experts

Mathematics and Data Sciences

Date: December 12, 2020

Workshop Schedule

Session / Timings	Topic	Expert
9:15 AM – 9:30 AM	Login and get-connected	-
9:30 AM – 9:45 AM	Welcome and Introduction	Prof. V. S. Borkar IIT Bombay
Session I Chair: V. S. Borkar		
Talk - 1 9:45 AM – 10:30 AM	Ask the Heilmeyer Questions: Towards High Impact Data Science STARS Projects	Prof. Y. Narahari IISc Bangalore
Talk - 2 10:30 AM – 11:15 AM	Proposal writing: do's and don'ts	Prof. Yogesh Simmhan IISc, Bangalore
Session II Chair: Prof. Shalabh Bhatnagar, IISc Bangalore		
Talk – 3 11:15 AM – 12:00 PM	Money matters: preparing the budget	Prof. Shalabh Bhatnagar IISc Bangalore
Talk – 4 12:00 PM – 12:45 PM	To be a mathematician in the pandemic: opportunities with data	Prof. Siva Athreya ISI, Bengaluru
12:45 PM – 2:00 PM	Lunch Break	-
Session III Chair: Prof. Yogesh Simmhan		
Talk – 5 2:00 PM – 2:45 PM	Mathematics and data science projects: some under-explored possibilities	Prof. Mallikarjuna Rao IIT Mumbai & Prof. V. S. Borkar
Discussion 2:45 PM – 3:45 PM	Q&A session	Prof. V. S. Borkar, Prof. Yogesh Simmhan and Experts
3:45 PM – 4:00 PM	Concluding session & Summing up	Prof. V. S. Borkar