

Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA)

The following Proposals (submitted under Deadline 15th July, 2022) have been recommended by Scientific Council of CEFIPRA under CSRP & Seminars/Workshops:

1. Proposal No. 6901-C Directed random networks and their scaling limits	
Prof. Kumarjit Saha Ashoka University, Sonapat, Haryana	Prof. David Coupier Institut Mines Télécom Nord Europe, Nord-Pas-De- Calais
2. Proposal No. 6903-A Deciphering the roles of yet underappreciated ciliopathy-related proteins in centrosome-cilium assembly and homeostasis in Drosophila	
Dr. Swadhin Chandra Jana National Centre For Biological Sciences, TIFR, Bengaluru	Dr. Bénédicte Durand Université Claude Bernard - Lyon I, Lyon
3. Proposal No. 6904-G Investigating the origin of switchbacks in the solar corona via interchange reconnection - A statistical and multi-instruments approach including machine learning	
Prof. Durgesh Tripathi, Inter University Center For Astronomy & Astrophysics (Iucaa), Pune	Dr. Clara Froment, Laboratoire De Physique Et Chimie De L'Environnement Et De L'Espace, Chambon La Foret
4. Proposal No. 6904-N: Electrically Modulated Dynamics of Soft-Particle Laden Complex Fluids in Deformable Microfluidic Capillaries	
Prof. Suman Chakraborty, Indian Institute of Technology Kharagpur, Kharagpur	Prof. Chauqi Misbah, Universte Grenoble Alpes, Grenoble
5. Proposal No. 6904-T Probing emergent topological properties in twisted van-der Waals hetero-structures	
Prof. Anindya Das, Indian Institute of Science, Bangalore	Prof. Preden Rouleau, Iramis,Gif Sur Yvette

6. Proposal No. 6905-B Carbon nanotube-based nanohybrid organocatalysts for enantioselective reactions	
Prof. I N N Namboothiri Indian Institute of Technology Bombay	Dr. Eric Doris CEA Saclay Centre, Department of Bioorganic Chemistry and Isotopic Labeling, Gif-sur-Yvette
7. Proposal No 6905-D -Fluorinated organocatalysts for hydrosilanes' activation through non-covalent interactions and applications in catalytic hydrosilylation	
Dr. Kumar Vanka National Chemical Laboratory, Pune	Dr. Christophe Michon Laboratoire d'Innovation Moléculaire et Applications (LIMA) UMR7042), Strasbourg
8. Proposal No. 6905-I Next-generation spirocyclic nitroxide spin labels for distance measurement at higher temperature by Electron Paramagnetic Resonance Spectroscopy	
Dr. Velavan Kathirvelu National Institute of Technology, Goa	Dr. Serge Gambarelli CEA Centre de Grenoble, Grenoble,
9. Proposal No. 6908-A Energy-efficient spin-orbit torques based on ultrahigh conductivity delafossite oxides for artificial intelligence and big data applications	
Dr. Bhagwati Prasad Indian Institute of Science, Bangalore	Dr. Manuel Bibes Unite Mixte de Physique CNRS/Thales, Palaiseau
10. Proposal No. 6908-D Nanophotonic Approaches Towards Enhancing the Chiroptical Signals in Assembled Molecules and Materials	
Prof. K Thomas Indian Institute of Science Education and Research Thiruvananthapuram	Prof. Cyriaque Genet Institut de Science et d'Ingénierie Supramoléculaires (ISIS), UMR7006), Strasbourg
11. Proposal No. 6908-T Novel spin-gapless semiconducting Heusler alloys for spintronics	
Prof. Chandan Mazumdar Saha Institute of Nuclear Physics, Kolkata	Dr. Eric Alleno ICMPE - Institut de Chimie et des Matériaux Paris-Est, Creteil
12. Proposal No. 69T05-B Data reduction and surrogate modelling of transition to turbulence of Rayleigh-Taylor instability data obtained by DNS	
Dr. Aditi Sengupta, IIT (ISM) Dhanbad	Dr. Lucas Lestandi, Ecole Centrale De Nantes,Nantes
13. Proposal No. 69T08-A Structural and functional details of biased signaling elicited by serotonin 5-HT ₇ receptor	
Dr. Arun Shukla, IIT Kanpur	Dr. Séverine Morisset-Lopez, Centre De Biophysique Moléculaire, CBM UPR 4301,Chambon La Foret

14. Proposal No. 69T08-C Microenvironmental regulation of softness and unjamming in breast cancer cells	
Prof. Ramray Bhat, Indian Institute of Science, Bangalore	Prof. Felix Rico Lai, UMR1067,Marseille, Provence- Alpes-Cote Dazur
15. Proposal No. 6909-C PAHAD-3K 'Paleohydrological variability and socio-ecological dynamics in High- Altitude Kashmir over the last 3000 years	
Dr. Debajyoti Paul Indian Institute Of Technology Kanpur	Dr. Elodie Brisset Institut De Recherche Pour Le Developpement, Marseille
Prof. Hema Achyuthan Anna University, Chennai	
16. Proposal No. 6903-K Conservation and divergence in the function and regulatory networks downstream of PLETHORA genes in the control of different branching events in rice	
Dr. Shri Ram Yadav, Indian Institute Of Technology Roorkee	Prof. Pascal Gantet, UMR Diade, Diversite Adaptation Et Developpement Des Plantes, Montpellier
17. Proposal No. 6903-L Phase transitions of an intrinsically disordered viral protein: From molecular grammar to nanoscale and mesoscale properties	
Prof. Samrat Mukhopadhyay, IISER Mohali	Dr. Sonia Longhi, Aix-Marseille Université, Marseille
18. Proposal No. 6904-E Active control of THz pulse generation from spintronic emitters for coherent THz time-resolved spectroscopy to detect magnetic ordering in real time	
Dr. Sunil Kumar, Indian Institute of Technology Delhi	Prof. Jerome Degert, Laboratoire Ondes Et Matière D'Aquitaine UMR 5798,Talence

Seminar Proposals Recommended

1.Seminar No	2022-0091_V1(Pure And Applied Chemistry)
Title	Catalysis for Sustainability
Name of Indian Cordinator	Prof. Basker Sundararaju
Institute	Department of Chemistry, IIT Kanpur
Name of French Cordinator	Prof. Rinaldo Poli
Institute	Laboratoire de Chimie de Coordination (LCC), UPR8241
2.Seminar No	2022-0105_V1(Computational Science)
Title	Workshop on Automata, Concurrency and Timed Systems (ACTS 2023)
Name of Indian Coordinator	Dr. S Akshay
Institute	Indian Institute of Technology, Bombay
Name of French Coordinator	Dr. Patricia Bouyer
Institute	Laboratoire Méthodes Formelles (UMR9021)
3.Seminar No	2022-0033_V1(Life And Health Science)
Title	International workshop on Explainable/Responsible Artificial Intelligence and Machine/Deep Learning for understanding human brain and related disorders
Name of Indian Coordinator	Prof. Jagannatha Rao Kosagisharaf
Institute	KL Deemed University, India
Name of French Coordinator	Prof. Daniel Racoceanu
Institute	Sorbonne University
4.Seminar No	2022-0049_V1 (Computational Science)
Title	Next generation Biorefinery for integrated production of advanced 2G & 3G biofuel and high value bio-products
Name of Indian Cordinator	Dr. Sanjukta Subudhi
Institute	The Energy and Resources Institute (TERI), New Delhi, India
Name of French Cordinator	Prof. Michel Middle Lopez
Institute	URD Agro Biotechnologies Industrielles / AgroParisTech - European Center of Biotechnology and Bioeconomy
5.Seminar No	2022-0128_V1(Material Science)
Title	Metal Nanoclusters and their self-assembly. From design and structure-property relationships to applications in energy conversion and nanobio interface.
Name of Indian Coordinator	Dr. Tapasi Sen
Institute	Institute of Nano Science and Technology, Mohali
Name of French Coordinator	Prof. Rodolphe Antoine
Institute	Institut Lumière Matière, ILM UMR5306

All the PIs of the above proposals will be shortly contacted by CEFIPRA for further actions