Multifunctional Electronic Materials and Processing (MEMP-2021) from 8th to 10th March, 2021

8th March 2021		
9.00 a.m. to 12.00 p.m.	**C-MET Foundation Day Programme**	
12.00 to 13.00	**Prof. Rodney Ruoff** IBS Director, Distinguished Professor, Center for Multidimensional Carbon Materials (CMCM), UNIST, Korea	**Foundation day lecture:** ***Liquid metal 'putty-like' composites, and making F-Diamane from AB-stacked graphene***
LUNCH		
14.00 to 14.40	**Prof. Ajayan Vinu** Global Innovation Chair for Nanomaterials and Director School of Engineering, University of New Castle Australia	***Advanced Nanoporous Materials for Energy & Environmental Applications***
14.40 to 15.20	**Prof. Sanjay Mathur** Director of the Institute of Inorganic Chemistry at the University of Cologne in Germany	***Efficient Photon-harvesting Technologies for Water Splitting Reactions***
15.20 to 16.00	**Mrs. Jyoti Arora** Special Secretary & Financial Adviser, MeitY, India	
TEA BREAK		
16.20 to 17.00	**Prof. Clare Grey** Geoffrey Moorhouse Gibson Professor in the Yusef Hammier Department of Chemistry at the University of Cambridge, a Fellow of Pembroke College, Cambridge and the Director of the Centre for Advanced Materials for Integrated Energy Systems.	***Developing and applying new tools to understand how materials for Li and "beyond-Li" battery technologies function***
17.00 to 17.40	**Prof. John Irvine,** Energy and Materials Group School of Chemistry, University of St Andrews St Andrews, UK	***New Dimensions in Solid State Cells***
17.40 to 18.20	**Prof. Pedro Gómez-Romero** Professor and Leader of the group NEO-Energy at ICN2	***Hybrid energy storage. The best of batteries and supercapacitors***
18.20 to 18.50	**B. K. Guddi**	***Science in silence***

9th March 2021		
8.20 to 9.00	**Prof. A Sumant** Group Leader - Nanofabrication and Devices/Materials Scientist, Nanoscience, Argonne National Laboratory, USA	***Towards developing energy-efficient electronics based on diamond***
9.00 to 10.00	**Prof. Yury Gogotsi** Distinguished University and Charles T. and Ruth M. Bach Professor Materials Science and Engineering, Drexel University, USA	***Chemistry and Applications of 2D Carbides and Nitrides (MXenes)***
10.10 to 10.50	**Dr. Michael D. Irwin** CTO, Hunt Perovskite Technologies, LLC, USA	***Derisking Metal Halide Perovskite Semiconductors for Solar PV Applications***
TEA BREAK		
11.00 to 11.40	**Prof. Vinayak Dravid** Abraham Harris Professor of Materials Science and Engineering, McCormick School of Engineering, Northwestern University, USA	**Teaching "*Old*" Materials "*New*" Tricks:** *Membrane-based Nanocomposites for Environmental Remediation and Circular Materials Economy*
11.40 to 12.20	**Prof. Douglas Macfarlane** Sir John Monash Distinguished Professor, School of Chemistry.Monash University, Australia	***Sustainable N_2 reduction to ammonia: First steps towards a sustainable and circular Ammonia Economy***
12.20 to 13.00	**Prof. Stefan Adams** Associate Professor, Department of Materials Science and Engineering, National University of Singapore	***Tools for accelerated design of ion conducting solids for energy storage applications***
LUNCH		
14.00 to 14.40	**Prof. Animesh Jha** Professor of Materials science, University of Leeds, UK	***Q-dot Structures in Glass for Solar Energy Harvesting***
14.40 to 15.20	**Dr. Nandish Thippeswamy** Process and strategy director at Manrochem Ltd,UK	***Importance of Techno-Economic Analysis in projects***
15.20 to 16.00	**Prof. Maya Bar-Sadan** Associate Professor, Department of chemistry, Ben Gurion University, ISRAEL	***"A place where everyone matters – interfaces in functional nanostructures"***
TEA BREAK		
16.20 to 17.00	**Prof. Chan-Jin Park**	***Insight into Composite Solid Polymer Electrolytes and***

	Professor, Materials Science and Engineering, Chonnam National University, South Korea	***their Application in All Solid State Lithium-ion Batteries***
17.00 to 17.40	**Dr. Glenn Mather** Research scientist Institute of Ceramics and Glass of the Consejo Superior de Investigaciones Científicas Madrid, Spain	***Improving stability and proton transport in $BaCeO_{3-\square}$-based perovskites for high-temperature electrochemical applications***
17.40 to 18.30	**Dr. Raghunath Mashelkar** Padma Vibhushan, National Professor Former DG, CSIR	***Science, Serendipity and Innovation***
10th March 2021		
9.00 to 9.30	**Prof. Mukund Karnjikar** President, Technology Holding LLC, 1515 W 2200 S, Salt Lake City UT 84119	***Next Generation Separation Method for Rare Earths***
9.30 to 10.10	**Prof Holly Stretz** Interim Chair and Professor. Department of Chemical Engineering, Tennessee Technological University, USA	***Synthesis of a 2D Nanoparticle Infrared Reporter, Cuprorivaite***
10.10 to 10.30	**TEA BREAK**	
10.30 to11.10	**Prof Sabine Devatour-Vinot** Institute Charles Gerhardt ,Montpellier	***Identification of highly proton conductive MOFs by a hybrid experimental-computational strategy***
11.00 to 11.40	**Prof Vasant Bhoraskar** Research Professor Sungkyunkwan University. Suwon. South Korea	***Neutrinos: in-visible source of energy on the Earth***
11.40 to 12.20	**Prof. Holger Throsten SCHUBART** CEO, Neutrino Energy Group, USA,Germany	***Neutrino Energy Capture***
12.20 to 13.00	**Dr. Thorsten Ludwig** New Energy Technologies, Dorfstrasse Schönhagen, 16928 Pritzwalk, Germany	***Neutrino foil, promising new energy technology***
LUNCH		
14.00 to 14.40	**Prof. Seeram Ramakrishna** Professor of Mechanical Engineering & co-director of NUS Nanoscience and Nanotechnology Initiative (NUSNNI), NUS, Singapore	***Future Healthcare Technologies: Intelligent Biomaterials & Systems***

14.40 to 15.20	**Prof. Shweta Agrawala** Department of Engineering, Aarhus University, Denmark.	***Printed and Bioelectronics Technology for healthcare***
15.20 to 16.00	**Prof. Arindam Ghosh** Indian Institute of Science, Bangalore.	***Materials Perspective of Quantum Computing***
TEA BREAK		
16.15 to17.00	**Dr. Sandip Chatterjee,** **Director & Sci-F, EMCD,** **MeitY, New Delhi (Chairman)** **Dr. Rajendra Sharma,** **SPEL Technologies, Pune** **Dr. Richard Lobo,** **Tata Chemicals** **Dr. Vilas Tathavadkar,** **Aditya Birla Science & Technology Co Ltd** **Prof. Animesh Jha,** **University of Leeds, Uk** **Mrs. Smt. Sunita Verma,** **Scientist-G, MeitY, New Delhi** **Dr. Bharat. B. Kale,** **Director General, C-MET** **Dr. Sangeeta Semwal,** **Scientist-D, MeitY, New Delhi** **Dr. R. Ratheesh,** **Director C-MET, Hyderabad** **Dr. N. Raghu,** **Director C-MET,Thrissur** **Dr. R. Prasada Rao,** **PC,C-MET** **(Event Coordinator)**	**Panel Discussion on Commercialization of Materials Research the Pathway to Aatmnirbhar Bharat**
VOTE OF THANKS BY CONVENOR		