

NEW GENERATION IDEATION CONTEST – 2020
DETAILS OF SHORLISTED IDEAS (OPEN CATEGORY)

Idea No.	Title	Details of Corresponding Author & Institute	Date & Time Slot for next round of evaluation
NGIC2020ID000085	Magnesium Ion Batteries: A Next Generation Energy Storage Device	Ikhe Amol Bhairuba Sunchon National University	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000 182	Tribochemical Degradation of Plastics in Water	Abhijit Nag IIT Madras	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000 183	Development of novel redox organic couples as a substitute for catholyte in the aqueous vanadium redox flow batteries	Raja M IIT Madras	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000 191	Circular bio-economy perspective for chemocatalytic processing of biomass for translation to high value furanic chemicals	Malluri Siva Naga Sai CSIR-IICT, Hyderabad	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000 221	In-situ Biomass Co-generation of Liquid/gaseous Fuels and nanometal carbon hybrids	Priyanka IIT Roorkee	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000 245	Self-terminating electrodeposition method for atomic layered Pt electrocatalyst in PEM Fuel Cells	Khantesh Agrawal IISc-Bangalore	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000 246	A facile route of Plasma-catalytic conversion of CO ₂ to value added fuels and chemicals	Piu Chawdhury IIT Hyderabad	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000250	Multi-faceted utilization of refinery sulphur and H ₂ S as a source of sulfiding agent for fine chemicals manufacturing	Sujit Sen NIT Rourkela	05/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000251	Development of a Solar Membrane Capacitive Deionization System by using Novel Graphene based Electrode for Desalination	Dr. Sujit Sen NIT Rourkela	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000253	Biovalue Kit- A Novel Pocket Friendly Kit to Inspect On-site Biomass Quality	Shubhada Gad Institute of Chemical Technology- Indian Oil Campus, Bhubaneswar	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000254	A Novel Synthesis of High-Value Carbon Nano Tubes via conversion of Lignocellulosic Biomass	Debarun Banerjee ISM-Dhanbad	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000256	Removal of metal ions from wastewater through COF mediated Ultrafiltration	Jinu Joji IISc - Bangalore	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000259	Recovery of crude oil from crude oil water emulsion Using ultrasound irradiation	Dr Ritesh Malani Institute of Chemical Technology- Indian Oil Odisha Campus	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000267	Plastic and agro-waste management and energy Production through	Nishant Ranjan IIT Bombay	05/01/2021

	plastic-biomass cogasification In a downdraft gasifier		Slot 14:00 pm to 16:00 pm
NGIC2020ID000274	Synchronized production of cyclohexanone and Gamma-valerolactone: adipic acid precursors in A single reactor over one catalyst i	Enumula Siva Sankar CSIR-IICT	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000275	Synthesis of ferrocene linked nitrogen-enriched Porous organic polymer material via Imine linkage to capture CO2	Suman Ghosh IIT Kharagpur	05/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000279	Molecular Systems For Storing Solar Thermal Energy	Namrata Ghildiyal H. N. B. Garhwal University	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000280	Adsorption of hydrocarbon vapors in petroleum Industries using bio waste with Electrospinning method	Polepaka Pranitha NIT- Calicut	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000289	Transition from non aqueous to aqueous Processed electrodes for Na-ion batteries eliminating Health/environmental hazards	Bachu Sravan Kumar IIT Bombay	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000298	Electroreduction of carbon dioxide to ethanol Using nanostructured copper-based Electrocatalysts	Saudagar Balasaheb Dongare Thapar Institute Of Engineering And Technology, Patiala	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000319	Bio-waste Derived Carbons as Efficient Anode Material for Lead-Carbon Hybrid Ultracapacitors: A Sulfation Free LAB Type System	Sadananda Muduli IIT Hyderabad	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000328	Biocrude production from the hydrothermal Liquefaction of unsegregated municipal solid Waste	Nallasivam J X2Fuels & Energy Pvt. Ltd.	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000340	Artificial Intelligence – A revolutionary step towards Novel Catalyst Design	Seema Singh NIT Durgapur	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000348	Utilization of HEA Supported over CeO2: Natural Gas Reforming to Synthetic Gas	Shikhadhakar IIT Gandhinagar	06/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000351	Boron Analogs of Graphene Derived from Layered Metal Diborides as Potential Advanced Materials for Energy Generation and Storage	Harini Gunda IIT Gandhinagar	06/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000354	Ultrathin, cost-effective, and highly stable Metal-Organic Framework desalination membrane for potable water.	Prateek Goyal IIT Gandhinagar	06/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000355	Turning Waste Plastics into Liquid Fuel: A Low Cost, High Efficiency Energy Source for Indian Needs	Uma Dwivedi IIT Delhi	06/01/2021 Slot 14:00 pm to 16:00 pm

NGIC2020ID000356	Lipopeptide modified iron oxide nanoparticles as anodic coating in microbial fuel cells: waste to sustainable energy	Swati Sharma IIT Guwahati	06/01/2021 Slot 14:00 pm to 16:00 pm
------------------	--	------------------------------	--

DETAILS OF SHORLISTED IDEAS
(UNDERGRADUATE CATEGORY)

Idea No.	Title	Details of Participants & Institute	Time Slot
NGIC2020ID000107	A Study on the comparison of Techno-Economic Analysis for different biomass utilization pathways	Sathish Kumar S Sastra University	06/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000121	Pre-treatment of lignocellulosic materials using White Rot Fungi along with Rotten Tomatoes.	Vijay Mukesh Parmar Visvesvaraya National Institute Of Technology, Nagpur	06/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000126	An ecosystem of Bioluminescent microorganisms for lighting purposes	Nandini Kanoria NIT Warangal	06/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000161	Application of two-dimensional materials for Sustainable Hydrogen Production	Omkar Roy IIT Kharagpur	06/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000200	Porous road blocks out of industrial waste	Shawani Shome Sathyabama Institute Of Science And Technology, Chennai	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000201	Water/air pollution removal using electrospun nanofibers from recycled cellulose acetate present in discarded cigarette butts	Abhimanyu Singh Khichi UPES-Dehradun	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000211	Catalytical pyrolysis of rice straw using red mud	Dekketi G C Vikram Reddy NIT- Calicut	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000231	Textile industry waste dye water treatment	Hriday A Patel Bharati Vidyapeeth College Of Engineering, Kharghar	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000266	Study of CO ₂ capture in different amine and Glycol based deep eutectic solvents(DESs)	Himanshu Singh Chauhan Rajiv Gandhi Institute Of Petroleum Technology	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000276	Pencil lead as a graphite-silica composite Anode for high-performance lithium-ion Batteries	Alok Kumar Pandey IIT- Hyderabad	07/01/2021 Slot 9:00 am to 11:00 am

NGIC2020ID000309	Solar Assisted process for the pyrolysis of Plastic waste and synthesis of carbon nanotubes (CNTs)	Pratyay Amrit Visvesvaraya National Institute Of Technology	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000321	Slag Battery	Navneeth Rajiv NIT-Tiruchirappalli	07/01/2021 Slot 9:00 am to 11:00 am
NGIC2020ID000323	Scheffersomyces (Pichia) stipitis: Xylose Conversion to ethanol from Lignocellulosic Hydrolysates	Harshita Ohja IIT Madras	07/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000329	Solar powered Desalination plant	Jadhav Siddhiraj Government College Of Engineering Karad	07/01/2021 Slot 14:00 pm to 16:00 pm
NGIC2020ID000335	Designing the catalyst for naphtha reforming using Artificial neural networks	Jaydeep Chawda NIT Trichy	07/01/2021 Slot 14:00 pm to 16:00 pm

Other Information

- 1) Other details of next round of evaluation sent to the corresponding authors through email.