i-PSG MS Teams Meeting: Presentation list

(Date: April 7-8, 2022; Time: 2 PM onwards)

[A] Thematic Research Project: Completed, On-going and New Proposals

Sl. No.	Project No.	Title of the project	Start date	End date	PL	Status	Presentation date
1.	OLP-0382	Effect of deformation induced martensite and dislocations density on the hydrogen permeation and hydrogen embrittlement of austenitic steels	16-10-20	15-03-22	G. Sudhakar Rao	Completed	08.04.2022
2.	OLP-0385	Understanding the phenomenon and enhancement of anti-icing properties of HVOF deposited coating	16-10-20	15-01-22	Paritosh Dubey	Completed	08.04.2022
3.	OLP-0374	Characterization of microbubbles and its subsequent application in fine particle separation	01-06-20	31-03-22	Kumari Ruby	Completed	08.04.2022
4.	OLP-0388	Study of Amorphous magnetic alloy flakes for Microwave Absorbing Materials (2-18 GHz): Tuning magnetic permeability through flake microstructure and Morphology	01-06-21	31-03-22	M. Premkumar	Completed	08.04.2022
5.	OLP-0389	Numerical modelling of heat transfer and fluid flow in Selective Laser Melting (SLM) of SS316L	01-06-21	31-03-22	Y. Usha	Completed	08.04.2022
6.	OLP-0392	Multi physics and heat treatment simulation of additive manufacturing process for property prediction of SS316L	01-06-21	31-03-22	M. Madan	Completed	08.04.2022
7.	OLP-0396	Production of iron powder/iron nugget from industrial waste by the process of segregation roasting	01-11-21	30-04-22	M. Bhattacharya	Completed	08.04.2022
8.	OLP-0395	Decarburization of high carbon ferroalloys by CO ₂ treatment	01-11-21	30-09-22	A. Ammasi	On-going	08.04.2022
9.	OLP-0398	Processing of glassy metal powders through gas atomization for additive manufacturing and coating applications	01-11-21	30-09-22	Rajat Roy	On-going	08.04.2022
10.	OLP-0406	Extraction and separation of rare earth elements through porous silica-grafted ligands	01-11-21	30-09-22	Rajen Kundu	On-going	08.04.2022
11.	OLP-0399	Enhancement of molten salt corrosion resistance of thermal energy storage materials in concentrated solar power plant through doping inhibitors	01-11-21	30-09-22	S. K. Pradhan	On-going	08.04.2022
12.	OLP-0407	Oxidation and hot corrosion behaviour studies of AMed Inconel 625 & Inconel 718 alloys	01-11-21	30-09-22	S. Paswan	On-going	08.04.2022
13.		Design and development of an in-house barrel electroplating system for coating Mg-based biodegradable implants			Roshan Kumar	New Proposal	07.04.2022
14.		Low-Temperature (<100 0 C) Glow Discharge Plasma Nitriding of Aluminum/Aluminum Alloys			Paritosh Dubey	New Proposal	07.04.2022
15.		Low cycle fatigue behaviour of an additively manufactured Ni-base superalloy IN-625			C V Singh	New Proposal	07.04.2022

16.	 Influence of precipitation on the threshold intensity factor for environmental assisted	 	G. Sudhakar	New Proposal	07.04.2022
	cracking of AA 5083-H111		Rao		

[B]Technology Development Project: Completed, On-going and New Proposals

Sl.	Project	Title of the project	Start date	End date	PL	Status	Presentation
No	No.						date
17.	OLP-0369	Scaling up of the process for production of iron powder from waste iron oxide fines /	16-10-19	31-03-22	D. C. Sau	Completed	08.04.2022
		slimes using hydrogen gas /natural gas					
18.	OLP-0372	Development of melting-casting facilities and optimization of melting and casting	01-12-19	31-03-22	A. P.	Completed	08.04.2022
		parameters for 3 rd generation Al-Li alloys			Murugesan		
19.	OLP-0393	Investigations on the NML'S retort technology for magnesium metal production	01-06-21	31-03-22	Krishna Kumar	Completed	08.04.2022
20.	OLP-0401	Investigate NML developed furnace compatibility with IIP bio-pellets	01-11-21	30-04-22	R. B. Meshram	Completed	08.04.2022
21.	OLP-0408	Upscalling of an energy efficient process for the recovery of metal values from spent	01-11-21	30-09-22	N. S. Randhawa	On-going	08.04.2022
		NdFeB magnets					
22.	OLP-0397	Feasibility study on producing DRI from lumps by using hydrogen	01-11-21	30-09-22	M. Madan	On-going	08.04.2022
23.	OLP-0400	Development of a hybrid centrifugal separator for application in mineral processing	01-11-21	30-09-22	Sunati Mohanty	On-going	08.04.2022

[C] Scholastic Project: Completed, On-going and New Proposals

Sl.	Project No.	Title of the project	Start date	End date	Project Leader	Status	Presentation
No.							date
24.	OLP-0352	High Temperature Crack Growth of Cr-Mo Steels (Module-III)	16-10-20	15-10-21	C. V. Singh	Completed	08.04.2022
25.	OLP-0353	Development of Functionalized MOF and its composites for the adsorption of light rare earths from effluent/dilute leach solution: Dynamic filtration studies with mass transfer modelling (Module-III)	16-10-20	31-03-22	Shivendra Sinha	Completed	08.04.2022
26.	OLP-0361	Development of high efficiency Tin Selenide based Thermoelectric and optically tunable coatings for alternative energy harvesting from different industrial applications (Module-III)	01-06-21	31-03-22	Komal Singh	Completed	08.04.2022
27.	OLP-0390	Mitigation of galvanizability of steel surface through adoption of sol-gel pre-coating and improvement in corrosion resistance of galvanizing coating through post intercalated ion conversion method (Module I)	01-06-21	31-03-22	M. Walunj	Completed	08.04.2022
28.	OLP-0378	Characterization, beneficiation and coke formation studies on low volatile coking coal for metallurgical utility (Module-II completed and New Proposal for Module-III)	01-06-21	31-03-22	Mohan Rao Andavarapu	Completed and new proposal for Module-III	07.04.2022
29.	OLP-0379	Determining the process route parameters of the formation of stable Face Centred Cubic Titanium (Module-II completed and New Proposal for Module-III)	01-06-21	31-03-22	Vaibhav Gaur	Completed and new proposal for Module-III	07.04.2022

30.	OLP-0380	Precipitation hardened compositionally complex Ni-based alloys aided with HDI	01-06-21	31-03-22	Shubhada Kar	Completed	07.04.2022
		strengthening (Module-II completed and New Proposal for Module-III)				and new	
						proposal for	
						Module-III	
31.	OLP-0391	Dsigning of a magneto-plasmonic grapheme material and its multimodal application	01-06-21	31-03-22	Sudeshana Das	Completed	07.04.2022
		in catalysis (Module-I completed and New Proposal for Module-II)			Chakravarty	and new	
						proposal for	
						Module-II	
32.		Beneficiation of lepidolite bearing pegmatite/aplite for lithium minerals concentrate			S K Sahoo	New Proposal	07.04.2022
33.		Near net shape 3D manufacturing of Inconel 718 by optimizing controlled parameters			Nimai Haldar	New Proposal	07.04.2022
		of wire arc additive manufacturing with Cold metal transfer process					
34.		In-depth study of interfacial conditions during early stages of pearlitic transformation			Vikas Kumar	New Proposal	07.04.2022
		in multicomponent highcarbon steels			Sahu		
35.		Ratcheting fatigue behavior of welded Inconel 740H nickel-based superalloy under			Rupendra Singh	New Proposal	07.04.2022
		asymmetric cyclic loading			Rajput		
36.		Investigation of hydrodynamics of gas solid fluidized bed in terms of angle of			Abhishek	New Proposal	07.04.2022
		fluidization and separationchamber aspect ratio			Kumar		
37.		Development of Fe-rich cost effective High-Entropy Alloys for high temperature			Vikas Shivam	New Proposal	07.04.2022
		applications					
38.		Microstructural evolution of Superalloy Inconel 740H during Thermomechanical			PVS Chaitanya	New Proposal	07.04.2022
		Processing					
39.		Preparation of a geopolymer-type binder from briquette ashes of Ulaanbaatar,			Zolzaya	New Proposal	07.04.2022
		Mongolia			Tsoodol		

[D] Infrastructrue Development Project: Completed, On-going and New Proposals

Sl.	Project No.	Title of the project	Start date	End date	Project Leader	Status	Presentation
No.							date
40.		Development of a MoU management System			Beena Kumari	New Proposal	07.04.2022
41.		Revamping In-house Project Management System (CSIR-NML-IPSG) Phase III			Beena Kumari	New Proposal	07.04.2022

Presentation time: (1) Completed projects: 10 minutes each

(2) On-going projects: 5 minutes each(3) New Proposals: 8 minutes each

PRESENTATION TIMIMING IS TO BE STRICTLY FOLLOWED