



Embassy of India
Moscow, Russia
Посольство Индии
Москва, Россия

75
Azadi Ka
Amrit Mahotsav

India - Russia
Scientific Webinar on Additive Manufacturing Technologies
17 February 2022

10.00 (MSC) / 12.30 IST time onwards
2.30+MSC = IST

Live Streaming RAS You-Tube Channel

https://youtube.com/channel/UCfPV_TMsvDHq0aV1K_dsZ5A

17 February, Thursday	
09:30 MSC 12:00 IST	STUDIO ROOM OPENS <ul style="list-style-type: none">● Staff officers from Russian and Indian sides log on, and IT Support log on● Audio/Visual Check
09:50 MSC 12:20 IST	STUDIO ROOM OPENS TO PUBLIC <ul style="list-style-type: none">● All speakers and staff from Russian and Indian sides in place● Registered participants allowed to enter
10.00 - 10.20 MSC 12:30 - 12:50 IST	Welcome and Introduction Remarks: Prof. Vladimir Komlev , Dr Sci (Engineering), Corresponding Member of the Russian Academy of Sciences, Director of Baibakov Institute for Metallurgy and Materials Science Prof. (Dr.) Harish Hirani , Director, CSIR- Central Mechanical Engineering Research Institute, Durgapur, India
Chief Moderator – Dr. Shishir Shrotriya , Counsellor (Science & Technology), Embassy of India, Moscow, Russia.	
Session -1 <i>Advancement in different additive manufacturing processes</i>	
Chairperson/Moderator: i) Dr. Amitava De , Professor, Mechanical Engineering, Indian Institute of Technology, Bombay amit@iitb.ac.in ii) Dr. Avik Chatterjee , Chief Scientist, CSIR-Central Mechanical Engineering Research Institute, Durgapur avik@cmeri.res.in	
10.20 – 10.40 MSC 12:50 - 13:10 IST	Dr. Suryakumar S. , Professor, Department of Mechanical & Aerospace Engineering, Indian Institute of Technology - Hyderabad ssurya@mae.iith.ac.in “Large Area Metal Additive Manufacturing”



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<p>10.40 – 11.00 MSC 13:10 – 13:30 IST</p>	<p>Dr. Andrey Samokhin, Ph.D. (Engineering), Leading Scientist, Head of Laboratory «Plasma processes in metallurgy and materials treatment», Baibakov Institute of Metallurgy and Materials Science, RAS asamokhin@imet.ac.ru</p> <p><i>“DC-arc Plasma spheroidization of powders for Additive Manufacturing”</i></p>
<p>11.00 – 11.20 MSC 13:30 – 13:50 IST</p>	<p>Dr. M. Mukherjee, Senior Scientist Centre for Advanced Manufacturing and Metrology Group CSIR-Central Mechanical Engineering Research Institute, Durgapur - 713209 ma.mukherjee@cmeri.res.in</p> <p><i>“Development of dissimilar structures in Wire Arc Additive Manufacturing”</i></p>
<p>11.20 – 11.40 MSC 13:50 – 14:10 IST</p>	<p>Prof. Mikhail Alymov, Professor, Corresponding member of RAS, Director, Merzhanov Institute of Structural Macrokinetics and Materials Science, RAS director@ism.ac.ru</p> <p><i>“SHS-metallurgy of heat-resistant alloys and granules from them for additive technologies”</i></p>
<p>11.40 – 12.00 MSC 14:10 – 14:30 IST</p>	<p>Dr. Vishwas R. Puttige, Business Head, Amace solutions Pvt. Ltd. Bengaluru – 560 058 Karnataka, India vishwas@am-ace.com www.am-ace.com</p> <p><i>“Recent advancements in Metal Additive Manufacturing in India”</i></p>
<p>12.00 – 12.20 MSC 14:30 – 14:50 IST</p>	<p>Dr. Natalia Shaitura, PhD (Physics and Mathematics), researcher in Semenov Research Center of Chemical Physics, RAS tesh-s@yandex.ru</p> <p><i>“Particles with an aluminum core and a hydroxide shell as a basis for creating ceramic-metal products by selective laser sintering”</i></p>
<p>12.20 – 12.40 MSC 14:50 – 15:10 IST</p>	<p>Dr. Vamsi Krishna Balla, Chief Scientist and Head Bioceramics & Coating Division, CSIR- Central Glass & Ceramic Research Institute Kolkata - 700032 vamsiballa@cgcricri.res.in</p> <p><i>“Low-cost Additive Manufacturing of Metals and Ceramics using Material Extrusion”</i></p>



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12.40 – 13.00 MSC 15:10 – 15:30 IST	Dr. Mikhail Slobodian , Ph.D. (Engineering), senior researcher, Research Laboratory of Advanced Technologies, Tomsk Scientific Center skinh@ngs.ru “Electron-beam technologies for additive manufacturing of metal products and subsequent processing of their surfaces”
13.00 – 13.20 MSC 15:30 – 15:50 IST	Mr. Antony Paul , Larsen & Toubro Limited L&T House, N.M. Marg, Ballard Estate, Mumbai, Maharashtra - 400 001 ANTONY.PAUL@larsentoubro.com www.larsentoubro.com “Metal Additive Manufacturing – The necessity for diverse technologies”
13.20 – 13.40 MSC 15:50 – 16:10 IST	Prof. Natalia Resnina , Dr Sci (Physics and Mathematics) Professor, Department for General Mathematics and Informatics, Saint-Petersburg State University “NiTi shape memory alloys produced by wire arc additive manufacturing” resnat@mail.ru
13:40 – 14:00 MSC 16:10 – 16:30 IST	Panel discussion (with participation of Maria Vartanyan , Associate Professor of Mendeleev University of Chemical Technology of Russia)

Session – 2 **Additive manufacturing applications**

Chairperson/Moderator: **Dr. Mikhail Slobodian**, Ph.D. (Engineering), Senior Researcher, Research Laboratory of Advanced Technologies, Tomsk Scientific Center
skinh@ngs.ru

14:00 – 14:20 MSC 16:30 – 16:50 IST	Prof. Vasily Lutsky , Dr. Sci (Chemistry), Head of the Sector for Computer Design of Materials, Siberian Branch of the Russian Academy of Sciences, Institute of Physical Materials Science vluts@ipms.bscnet.ru “Exploded phase diagrams of ternary systems: 3D-prototyping, correction, validation”
14.20 – 14.40 MSC 16.50 – 17.10 IST	Dr. Amitava De , Professor, Mechanical Engineering, IIT Bombay amit@iitb.ac.in “Computer based models for design for additive manufacturing”



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<p>14.40 – 15.00 MSC 17.10 – 17.30 IST</p>	<p>Dr. Maxim Khomenko, Ph. D., researcher in ILIT RAS – branch of the FSRC "Crystallography and Photonics" RAS hmd@laser.ru</p> <p><i>“High-performance computing for process planning and microstructure control in laser metal deposition”</i></p>
<p>15.00 – 15.20 MSC 17.30 – 17.50 IST</p>	<p>Dr. Ravi Babu V, Scientist, ECPS Division CSIR- Central Electro Chemical Research Institute, Karaikudi - 630006 valaparavi@gmail.com ; vrvibabu@cecri.res.in</p> <p><i>“Fabrication of polymer composite filaments and Biomaterial ink for 3D printing of structural components and bio-implants”</i></p>
<p>15.20 – 15.40 MSC 17.50 – 18.10 IST</p>	<p>Prof. Anatoly S. Boreysho, Dr Sci (Engineering), Professor, Chief Scientist of “Laser Systems Co.” Boreysho@Lsystems.ru https://www.lsystems.ru/</p> <p><i>“Scientific and engineering tasks of additive manufacturing (SLM) implementation”</i></p>
<p>15.40 – 16.00 MSC 18.10 – 18.30 IST</p>	<p>Dr. Atasi Pal, Principal Scientist, CSIR-CGCRI Fiber Optics and Photonics Division CSIR-CGCRI Kolkata - 700032 atasi@cgcri.res.in</p> <p><i>“Fiber Laser: an effective energy source in additive manufacturing”</i></p>
<p>16.00 – 16.20 MSC 18.30 – 18.50 IST</p>	<p>Dr. Alexander Dubrov, PhD, Senior Scientist, Laboratory for interaction of laser radiation with substance and additive manufacturing technologies, Institute for Problems of Laser and Information Technologies RAS – Branch of the Federal Research Centre «Crystallography and Photonics» dubrov.av@mail.ru</p> <p><i>“Laser Metal Deposition: Melt Pool Behaviour Analysis and Process Modification”</i></p>
<p>16.20 – 16.40 MSC 18.50 – 19.10 IST</p>	<p>Dr. Deepak Kumar Pattanayak, Principal Scientist CSIR-Central Electrochemical Research Institute, Karaikudi, Tamil Nadu- 630006 deepak@cecri.res.in</p> <p><i>“Role of process parameters on component development in selective laser melting technique”</i></p>



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<p>16.40 – 17.00 MSC 19.10 – 19.30 IST</p>	<p>Dr. Sergey Panin, PhD, Professor, Head of lab. Mechanics Polymer Composite Materials, ISPMS SB RAS, Tomsk svp@ispms.ru</p> <p><i>“Two-component feedstock based on ultra-high molecular weight polyethylene for additive manufacturing of medical products”</i></p>
<p>17.00 – 17.20 MSC 19.30 – 19.50 IST</p>	<p>Dr. Pulak Mohan Pandey, Director, BIET Jhansi (U.P. Government) Professor (On lien), Department of Mechanical Engineering, Indian Institute of Technology - Delhi pmpandey@mech.iitd.ac.in</p> <p><i>“Development of rapid manufacturing processes for fabrication of customized scaffolds and implants for orthopedic and cardiovascular applications”</i></p>
<p>17.20 – 17.40 MSC 19.50 – 20.10 IST</p>	<p>Prof. Maxim Sychov, Dr Sci (Engineering), Leading Scientist, Institute of Silicate Chemistry of RAS msychov@yahoo.com</p> <p><i>“New generation of materials based on the triply periodic minimal surface topologies”</i></p>
<p>17.40 – 18.00 MSC 20.10 – 20.30 IST</p>	<p>Dr. Vijay Kumar Meena Principal Scientist, Manufacturing Science and Instrumentation (MSI) CSIR-CSIO Chandigarh, 160030, India vijaykumar@csio.res.in</p> <p><i>" Additive manufacturing for Orthopedic/Maxillofacial implants"</i></p>
<p>18.00 – 18.20 MSC 20.30 – 20.50 IST</p>	<p>Panel Discussion (with participation of experts from NUST MISiS and SIU Systems, Moscow, Russia)</p>
<p>18.20 – 18.30 MSC 20.50 – 21.00 IST</p>	<p>Closing speeches: Dr. Avik Chatterjee, Chief Scientist, CSIR-Central Mechanical Engineering Research Institute, Durgapur, India</p>