

National Advisory Committee

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Organizing Committee

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Paul, C P	Secretary, LAMAT-2k18
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Mukhopadhyay, P K	
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DAE-BRNS Workshop on Laser Additive Manufacturing & Allied Technologies (LAMAT-2k18)



October 8 – 12, 2018

Organized by



Raja Ramanna Centre for Advanced Technology

Sponsored by



Board of Research in Nuclear Sciences (BRNS)

LAMAT-2k18

LAMAT-2k18

About LAMAT-2k18

Laser Additive Manufacturing (also known as Laser 3D Printing) is one of the advanced manufacturing techniques for fabricating engineering and prosthetic components directly from 3D Model. It is a step towards Feature based Design and Manufacturing and is identified as one of the premier technologies driving the fourth industrial revolution. DAE-BRNS Workshop on Laser Additive Manufacturing and Allied Technologies (LAMAT-2k18), a national workshop, is being organized during **October 08 - 12, 2018 at Raja Ramanna Centre for Advanced Technology, Indore.**

The deliberations of the LAMAT-2k18 will include tutorials and review talks by the leading experts on various aspects of laser additive manufacturing (LAM) and allied technologies, including LAM system development, applications of LAM and future scope of the technology. The workshop is a unique opportunity of learning for beginners and updating the existing knowledge/skills for academicians. The workshop provides an opportunity to interact with experts in the area of LAM system development and processing and to have hands-on training on LAM systems developed at RRCAT.

Topics to be covered

- Laser Fundamentals
- Laser Material Interaction
- Laser Additive Manufacturing (LAM) Processes
- LAM System Development
- Materials and Metallurgical aspects of LAM
- LAM in aerospace, medical and other industries
- Process Modelling of LAM
- Post-processing of LAM parts
- Reverse Engineering
- Recent R & D trends and future directions in LAM
- Hands-on training on LAM systems developed at RRCAT



LAM system using Direct Energy Deposition



LAM system using Powder Bed Fusion

Who should attend?

- Research Scholars/ Post graduate Students
- Scientists/ R&D Engineers/ Academicians
- Manufacturing Engineers
- Any one interested in 3D Printing and Additive Manufacturing

Only limited number of participants will be selected for the workshop due to constraint on Hands-on-Experiments. Preference will be given to those working in the area of LAM.

Financial Assistance

Financial assistance towards travel by train (sleeper class) by the shortest route and free accommodation at RRCAT Guest House can be provided to a limited number of deserving PG students/ PhD Scholars. Please apply for the financial assistance with a letter of recommendation from research guide/ Head of the Department addressed to the Convener, LAMAT-2k18. The complete application should reach to us on or before **August 31, 2018.**

Registration Fees

- | | | |
|---|---|------------|
| ● Research Scholars/ Post graduate Students | : | Rs. 2000/- |
| ● Scientists and Engineers from National Labs | : | Rs. 3000/- |
| ● Faculty Members | : | Rs. 3000/- |
| ● Industrial Participants | : | Rs. 5000/- |

Registration Fees includes workshop kit, tea and working lunch.

Mode of Payment

Mode of payment will be through direct bank transfer / Demand Draft. The details will be informed to selected candidates.

Important Dates

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|---|---|---------------------------|
| ● Last date of receipt of Application | : | August 31, 2018 |
| ● Information to Selected Candidates | : | September 8, 2018 |
| ● Last date for Registration with payment | : | September 15, 2018 |

For more details, please visit

<http://www.rrcat.gov.in/symposiums/conf/index.html#>