



Workshop  
On


# “High Power Fiber Laser: Opportunities and Challenges”

27 - 28 February, 2020

at

CSIR-Central Glass & Ceramic Research  
Institute, Kolkata

([www.cgcri.res.in/hpfl2020](http://www.cgcri.res.in/hpfl2020))



Jointly Sponsored by  
DRDO-JCBCAT and CSIR-CGCRl, Kolkata

## Workshop Schedule

27<sup>th</sup> February, 2020

09:30 am	-	10:00 am	Registration
10:00 am	-	11:00 am	Inauguration
11:00 am	-	12:30 pm	Key Note Lecture
12:30 noon	-	01:30 pm	Plenary Lecture
			Lunch
02:30 pm	-	04:45pm	Technical Session 1
05:00 pm	-	06:30 pm	Technical Session 2
			Dinner

28<sup>th</sup> February, 2020

10:00 am	-	11:45 am	Technical Session 3
12:00 pm	-	01:30 pm	Technical Session 4
			Lunch
02:30 pm	-	04:30 pm	Technical Session 5
05:00 pm	-	05:30 pm	Valedictory Session
05:30 pm	-	07:00 pm	Lab Visit
			Dinner

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Established in 1950, CSIR-Central Glass and Ceramics Research Institute has made significant contribution in the field of glass, ceramics and its allied technologies with applications in Fiber Optics & Photonics, Strategic, Energy & Environment, Healthcare and Manufacturing.

**About the workshop:** In recent times, fiber lasers have shown a path-breaking track record for high power and good beam quality which have tremendous applications in manufacturing and defence sectors. Still, there are several important issues for enhancing the power level, particularly modal instability and non-linear effects which degrade the beam quality and power stability. These need serious attention for long-term applications.

The Workshop will primarily focus on various aspects of specialty optical fibers, optical materials, fiber based components, laser beam shaping, and other critical issues related to high power fiber laser and its applications. Renowned researchers and industry people from abroad and India who are working in the related fields will share their knowledge in this workshop.

### Organizing Committee:

- Chairman: Dr. K. Muraleedharan, Director, CSIR-CGCRI
- Co-Chairman: Dr. Somnath Bandyopadhyay
- Convenor: Dr. Mrinmay Pal, Co-Convenor: Dr. Anirban Dhar
- Treasurer: Dr. Shyamal Das and Mr. Dipten Kumar
- Advisor: Shri Hari Babu Srivastava, Director, LASTEC
- Dr. G G Dutta, Director JCBCAT
- Dr. Ranjan Sen, Consultant, CGCRI
- Dr. Suranjan Pal, Advisor, BEL

Members: Dr. Mukul C Paul, Dr. Atasi Pal, Mr. Palas Biswas, Mrs. Nandini Basu Mullick, Dr. Debashri Ghosh, Mr. Biplab Mitra, Mr. Abhirup Biawas, Mr. Indrajit Halder, Mr. Pratik Ghosh, Dr. Sourav Sarkar (JCBCAT)

### Registration: (On Prior Notice Only)

The registration fee includes registration kit, workshop lunch and dinner.

- Rs. **3000/-** for Research Fellows and Ph. D. Scholars. Student accommodation will be provided in guest house at nominal charges.
- Rs. **6000/-** For Scientists, Professors and Industry Representatives. For accommodation please contact organizing team.

\* 'No Registration Fees is required for the participants from DRDO.'

Registration fee can be paid online. The bank details are provided below.

Account No.: **30267963259**

Beneficiary Name: **CSIR Central Glass and Ceramic Research Institute**

Address: 196 Raja S.C. Mullick Road, P.O. Jadavpur, Kolkata-700 032

Branch: State Bank of India, Jadavpur University Branch

IFSCCODE: **SBIN0000093**

### Key Note Speaker:

**Professor Michalis N. Zervas**

Royal Academy of Engineering Chair in Advanced Fiber Laser Technologies for Future Manufacturing, Optoelectronics Research Center, University of Southampton, UK.

Title of the Talk: **"High Power Fiber Lasers for Industrial Applications: Current Status, Challenges and Future Prospects"**

### Invited Speakers:

- Shri Hari Babu Srivastava  
Director, LASTEC
- Prof. A K Nath  
IIT Kharagpur
- Dr. B.N. Upadhyay  
SOH, RRCAT, Indore
- Prof. V R Supradeepa  
IISC Bangalore
- Prof. Kallol Bhattacharya  
University of Calcutta
- Dr. Jagannath Nayak,  
Director, CHES
- Prof. Johan Nilsson  
University of Southampton
- Dr. Arivind Patel  
Chief Managing Director, SLTL
- Dr. Suresh Nair  
Global CTO, NeST Group