भारतीय अंतरिक्ष विज्ञान एवं प्रौद्योगिकी संस्थान

INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY

तिरुवनंतपुरम / Thiruvananthapuram - 695 547

DEPARTMENT OF PHYSICS

CONFERENCE ON OPTICAL MATERIALS AND FABRICATION FOR SPACE APPLICATION

ON 16-17 DECEMBER 2026

OMF 2026



About OMF- 2026

ABOUT THE CONFERENCE

The Department of Physics at the Indian Institute of Space Science and Technology (IIST) is organizing a two-day conference on “Optical Materials and Fabrication for Space Applications” on 16 and 17 December 2026.

The Department has established strong research expertise in applied optics, condensed matter and solid-state physics, atomic and molecular physics, and emerging areas of quantum technology. Building on this foundation, the conference aims to provide a platform for scientific exchange, interdisciplinary collaboration, and the advancement of technologies critical to future space missions.

The two-day meeting will bring together leading scientists, academicians, researchers, and students from premier institutes, universities, and research organizations across the country to exchange ideas and discuss recent advances in optical systems, materials development, and optical fabrication techniques relevant to space applications.

The conference will feature invited lectures by experts and research presentations by young scientists and researchers. The technical sessions will cover a broad range of topics, including:

- Optical materials for space applications
- Precision optical fabrication and finishing
- Coatings, surface engineering, and protection
- Optical metrology, testing, and characterization
- Optical systems for spacecraft and payloads
- Environmental qualification and reliability
- Advanced manufacturing and emerging technologies

A dedicated panel discussion and brainstorming session will focus on emerging technologies, future research directions, and the challenges associated with developing advanced optical systems for space applications. The session will encourage dialogue among experts and participants to identify opportunities for collaborative research, promote the sharing of expertise and resources, and explore the establishment of critical facilities required for the development of next-generation space missions in India.

Through this initiative, the conference seeks to strengthen the national research ecosystem in space optics, foster meaningful collaborations between academic institutions and research organizations, and contribute to the development of indigenous capabilities in optical materials, precision fabrication, and advanced optical systems for future space missions.

PROGRAMME & PARTICIPATION

PROGRAMME HIGHLIGHTS

Invited/ Plenary Talks

Expert perspectives on optical materials, fabrication and space-qualified optical technologies.

Poster/ Research Showcase

Expert perspectives on optical materials, fabrication and space-qualified optical technologies. Oppurtunity to present emerging research, innovations and experimental results.

Technical Sessions

Research presentations and discussions covering materials, manufacturing, testing and applications.

Industry & Technology Interation

Exchange of practical perspectives on manufacturing, qualification and deployment.

CALL FOR PARTICIPATION

Researchers, Students, Faculty members, Scientists, Engineers and industry professionals working in relevant areas are invited to participate in OMF-2026

ORGANIZING COMMITTEE

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  Vice Chancellor, IIST, Trivandrum

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- **Prof. Jinesh K B**

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  IIST, Trivandrum

INVITED SPEAKERS

- **Dr. B. Vishweshwar Rao**
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Being update...

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- **Dr. Dinesh N Naik**
  IIST, Trivandrum
  (Convener)

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