



# NATIONAL CONFERENCE

## ON FUNCTIONAL GLASSES AND CERAMICS: IMPACT ON HEALTH AND ENVIRONMENT

**(NCFGCHE-2024)**

**CONFERENCE DATE:** MARCH 1-2, 2024

**VENUE :** Seminar Hall, VTU CPGS - KALABURAGI, KARNATAKA



## IMPORTANT DATES

<b>Pre-registration</b>	: January, 24 (through E mail)
<b>Submission of Abstracts</b>	: February 10, 2024
<b>Acceptance of Abstracts</b>	: February 15, 2024
<b>Registration</b>	: February 20, 2024
<b>Pre-Conference</b>	: February 29, 2024
<b>Conference Date</b>	: March 1-2, 2024

## CONTACT DETAILS

**Dr M S Jogad, CONVENER, NCFGCHE-2024**

EC Member IAPT, Ex Coordinator Dept. of Physics, KSAWU Vijayapur, Ex Principal, S. B. College of Science, Kalaburagi, Chairman, Advisor Committee, KSCST, and Professor of Physics (Hon.), SSSUHE, Kalaburagi  
**Email:** jogadms@gmail.com | **Mobile:** 9880971208  
 (Former Fullbrighter & Sir C V Raman Awardee)

**Prof Baswaraj Gadgay, CO-CONVENER, NCFGCHE-2024**

Regional Director, VTU RO, Kalaburagi, Vice President and Zonal Mentor (South), IETE, New Delhi  
**Email:** basawaraj\_gadgay@vtu.ac.in | **Mobile:** 9448754546

## ABOUT THE CONFERENCE

The United Nations proclaimed Year 2022 as an International Year of Glass (IYoG), in its General Assembly on 18th May 2021. Glass has long been changing the game. From early obsidian tools to revolutionary advancements in modern science and technology, from the Venetian masters to the American Studio Glass movement and beyond, glass has been a trusted tool and commodity, shaping cultures on almost every continent. Glass has transformed and illuminated the world we live in, right up to and including the COVID-19 pandemic. Glass / Glass-ceramics / ceramics are considered materials for sustainable development influencing in a positive manner both the health and environment sectors. Materials Research Society of India (MRSI), Subject Group: Ceramics and Glasses including Building Materials (CG), MRSI Bangalore Chapter, Indian Association of Physics Teachers (IAPT), Regional Chapter and Visvesvaraya Technical University (VTU), Centre for PG studies, Kalaburagi, and Karnataka State Council for Science and Technology (KSTA) are jointly organizing a two-day National Conference on Functional Glasses and Ceramics: Impact on Health and Environment (NCFGCHE 2024) at VTU, during March 1-2, 2024, along with a Preconference session for UG/PG students on 29-02-2024 at S. B College of Science, Gulbarga. Invited talks, contributed papers along with industry participation will form a broad framework of the symposium. This conference will provide a common platform for different researchers, technologists and industry to share their experiences/expertise related to these technologically important areas.

## SCOPE OF THE CONFERENCE

Following topics covering Physics/Chemistry and Engineering aspects of Glass and Glass ceramics/Ceramics will be discussed:

- Synthesis/production-techniques, new methods/ issues
- Materials characterization : thermal, mechanical, structural and optical
- Computational modelling / simulation studies in Glasses
- Materials for Laser applications materials, optical properties, devices/ optical fibres
- Radiation resistance shielding
- Radioactive waste Immobilization materials, properties, long term behavior
- Encapsulation / sealing – materials properties, interface behavior
- Biomedical applications related materials and processes
- Building (Ceramic) Materials
- Devices / Components and related instrumentation
- Effect on health and Environment
- Industrial perspective in Indian context

## ABOUT ORGANISERS

**Materials Research Society of India (MRSI)** is an interdisciplinary professional body dedicated for the growth of indigenous research and development in the area of materials science and engineering and its applications. It stimulates accelerated research and development activities in a wide range of materials and their application through its Subject Groups. MRSI Mumbai-Chapter (MRSI-MC) is engaged in promoting materials research in and around Mumbai region. The website of MRSI MC is: <http://mrsi-mumbai.org>. One of the Subject Groups of MRSI is : Ceramics and Glasses including Building Materials (CG) engaged in promoting research in Ceramics and Glass Science and Technology. The **Visvesvaraya Technological University (VTU), Centre for PG Studies, Kalaburagi** has the excellent ambience and required infrastructure for imparting quality education through its well-structured administrative and academic staff for development of students' personality. The centre has two full time undergraduate programmes in B.Tech in Computer Science & Engineering and B.Tech in Electronics and Computer Engineering and five full time postgraduate programmes in M.B.A, M.C.A., and M.Tech in Computer Science & Engineering, Construction Technology, and Machine Design. All the departments have well qualified faculty members and are involved in research and development activities. The **Indian Association of Physics Teachers (IAPT)** is a voluntary organization of Physics teachers/researchers and others interested in the dissemination of scientific knowledge, promotion of scientific temper and culture with a focus on improvement of quality of Physics education at all levels. With this objective in view, IAPT organizes multiple activities such as -Seminars, conferences, examinations, laboratory workshops and competitions, among others, both for teachers and students. It has 23 regional chapters.

## LIST OF EMINENT SPEAKERS (TENTATIVE)

- Dr Sitendu Mandal**, CSIR-CGCR, Kolkata
- Prof Venkappayya R Desai**, IIT Dharwad
- Dr Kitheri Joseph**, IGCAR, Kalpakkam
- Dr A Arya/Abhijit Ghosh**, GAMD, BARC
- Dr P S R Krishna**, BARC, Mumbai / **Dr C Venkateswaran**, VSSC, Thiruvananthapuram
- Dr V Sudarsan**, Chemistry Division BARC
- Dr Gopi Sharma**, KMV, Jalandhar
- Prof R S Gedam**, VNIT, Nagpur
- Dr B B Kale**, Ex-DGCMET, Pune / **Prof CK Jayashankar**, SVU, Tirupati
- Prof Srikanth Sastry**, JNCASR, Bengaluru,
- Dr AR James**, Head Ceramics and Composites, DMRL, Hyderabad (to be confirmed)
- Presentations by Industry .....



## ADVISORY COMMITTEE

Dr A K Mohanty Chairman, DAE, Mumbai  
Dr N Kalaiselvi Director General, CSIR  
Dr Vivek Bhasin, Director, BARC, Mumbai  
Dr S Vidyashankar, VC, VTU, Belagavi  
Dr Balamuralikrishnan, Director DMRL  
Prof S B Krupanidhi President MRSI, IISc Bengaluru  
Dr B Venkataram, Director IGCAR, Kalpakkam  
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Prof S Ashokan, IISc, Bengaluru  
Prof P K Ahluwalia, President, IAPT  
Dr B B Kale, Ex-DG CMET, Pune  
Dr Gautam Dey, Ex-BARC, Mumbai  
Dr Ashok Arya, Head GAMD, BARC  
Dr N Raghu, Director, C-MET, Pune  
Dr B G Mulimani, Ex- VC, Gulbarga University  
Prof C K Jayasankar Ex-S V U, Tirupati  
Prof S Murugavel, Physic Dept. DU, Delhi  
Prof K M Jadhav, Emeritus-MGM University, Aurangabad  
Dr (Mrs) A V Deshpande, VNIT, Nagpur  
Mr Manoj Sapara, Secretary, BRNS, DAE  
Dr B S Krishnamurthy, Ex- Chairman, Dept Physics, Gulbarga University  
Shri Pradeep K Kheruka, Borosil, Mumbai

## PROGRAM COMMITTEE

Dr B Shambhu Lingappa, VTU, Kalaburagi  
Dr Babu Reddy, VTU, Kalaburagi  
Dr Brijbhushan, VTU, Kalaburagi  
Dr L A Udachan, IAPT, RC-12, Kalaburagi  
Dr S M Khened, Secretary, IAPT RC 12  
Mr Arvinda H Dyama Treasurer, IAPT RC12

## SCIENTIFIC PROGRAM COMMITTEE

Prof C K Jayasankar, Sri Venkateswara University, Tirupati  
Dr V Sudarsan, BARC  
Dr A R Molla, CSIR-CGCRI, Kolkata  
Dr PSR Krishna, BARC  
Dr C Venkateswaran, VSSC  
Dr Neetu Verma, KMV, Jalandhar  
Dr Manoj Shekhawat, GEC, Bikaner

**Participation Certificates will be given to all Registered Participants.**

## **REGISTRATION FEE**

**Conference:**

Research Students: Rs 1000/-

MRSI Members: Rs 2000/-

Non-Members: Rs 2500/-

Participants from Industries: Rs 5000/-

**Pre-Conference:**

Students / Teachers : Rs 200/-

IAPT members: Nil

## **BANK ACCOUNT DETAILS**

**Account Name :** Indian Association Of Physics  
Teachers IAPT-Karnataka RC 12

**Account No :** 13082010017025

**IFSC Code :** CNRB0011308

**Address :** Canara Bank, Nuthan Vidyalaya  
Branch, Kalaburagi, Karnataka.

## **ACCOMMODATION**

Limited Guest House / Hostel accommodation shall be available on first come first served basis. Those interested in accommodation including Hotel should inform Convener in advance latest by 31st January 2024...

## **SOUVENIR & EXHIBITION**

A souvenir containing the technical program, abstracts of lectures to be delivered by invited speakers/experts, abstracts of contributed papers and various event information of MRSI and other Organising/ sponsoring bodies, would be published on this occasion. An exhibition shall be arranged for displaying products and equipments. Manufacturers and suppliers who would like to exhibit their products and equipments may please contact Convener for further details.

## **CALL FOR ABSTRACTS**

One-page extended abstract in word format should be submitted via Abstract Template Link



Click on the link below

**Submission of Abstract : for National Conference on Functional Glasses and Ceramics: Impact on Health and Environment (NCFGCHE-2024) at VTU Kalaburagi (google.com)**

## **PRE-CONFERENCE ON PHYSICS EDUCATION**

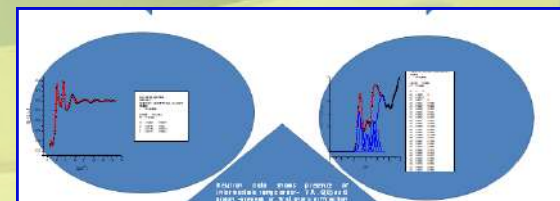
**( VENUE: Sharanbasveshwar Science College, Kalaburagi )**

1. Talk on Nobel Prize in Physics and Chemistry by renowned scientists.
2. Simulation experiments and experimental demo by experts EC Members, IAPT.
3. RC12 and Sub RC12A Regional Council Meeting.

EC member IAPT, EC members of **RC12 and Sub RC12A**

- **Dr M S Jogad, Convener NCFGCHE 2024**

(separate leaflet will be sent)



## NATIONAL ORGANIZING COMMITTEE

**Prof Ashok M Raichur - Chairman**  
IISc, Bengaluru, Professor Dept. of Materials Engineering IISc Bengaluru & Secretary KSCST Bengaluru - Karnataka, INDIA.

**Dr G P Kothiyal - Co-Chairman**  
MRSI Subject Chair, Former Head Glass and Advanced Ceramics Division, BARC, Mumbai.

**Dr M S Jogad - Convener**  
EC Member IAPT, Ex Coordinator Dept. of Physics, KSAWU Vijayapur, Ex Principal, S. B. College of Science, Kalaburagi, Chairman, Advisor Committee, KSCST, and Professor of Physics (Hon.), SSSUHE, Kalaburagi.

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Dr Neetu Verma, KMV, Jalandhar  
Dr C Venkateswaran, VSSC  
Dr Rekha Ghorpade, GS, IAPT  
Dr P Nandi, GAMD, BARC, Mumbai  
Dr Ashok Sahu, GAMD, BARC, Mumbai

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