



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

Pre-registration	: January, 24 (through E mail)
Submission of Abstracts (extended date)	: February 24, 2024
Acceptance of Abstracts	: February 25, 2024
Registration	: February 20, 2024
Pre-Conference	: February 29, 2024
Conference Date	: 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

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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 (KSCST), and Karnataka Science and Technology Academy (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

Dr Sitendu Mandal, CSIR-CGRI, Kolkata

Prof Venkappayya R Desai, IIT Dharwad

Dr Kitheri Joseph, IGCAR, Kalpakkam

Dr A Arya/Abhijit Ghosh, GAMD, BARC

Dr P SR Krishna, BARC, Mumbai

Dr V Sudarsan, Chemistry Division BARC

Dr Gopi Sharma, KMV, Jalandhar

Prof R S Gedam, VNIT, Nagpur

Dr BB Kale, Ex-DG CMET, Pune

Prof CK Jayashankar, SVU, Tirupati

Dr Sevi Murugavel, University of Delhi

Dr Shiva Gadaga, USA

Dr M S Jogad, SSSUHE, Kalaburagi

Prof Bernhard Roling, University of Margburg, Germany

Prof Mikhail Brik, University of Tartu, Estonia

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
Mr Shanker V Nakhe, Director, RRCAT, Indore
Dr (Mrs) Suman Kumari Mishra, Director CSIR-CGCRI, Kolkata
Dr Raghvendra Tewari, Director, MG, BARC, Mumbai
Dr Sitendu Mandal, CSIR-CGCRI, Kolkata
Prof Chandana Rath, IIT(BHU) Varanasi
Prof P S Anil Kumar, Gen Secretary MRSI
Prof S M Shivprasad, IIT, Dharwad
Prof Ajit Kulkarni, IITB, Mumbai
Prof Parag Bhargava, IITB, Mumbai
Prof N K Udayasankar, NITK, Suratkal, Karnataka
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

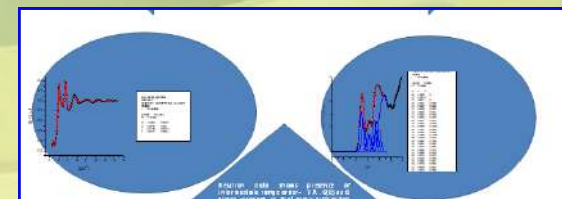
(**VENUE:** Sharanbasveshwar Science College, Kalaburagi)

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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Prof Gopi Sharma, KMV, Jalandhar
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

Dr Pranesh Sengupta, DAE/BARC, Mumbai
Dr Subir Kumar Roy, DMRL Hyderabad
Dr Manoj S Shekhawat, GEC, Bikaner.
Prof Rajendra Hegadi, Dean, IIIT, Dharwad
Mr Swapnil Walunj, Borosil Renewables
Dr U T Vijay, Exe. Sec. KSCST, Bengaluru
Dr A M Ramesh, CEO, KSTA, Bengaluru
Dr Baburao Sherikar, PDACE, Kalaburagi