



**Theme Symposium on
Advance Ceramic Materials –
Monoliths to Composites**

The Materials Research Society of India holds its Annual General Meeting and concurrently a theme symposium every year at different parts of the country to provide a platform to the Materials Science Community from Academia, Research organizations and Industries to exchange and share their research, developments and innovations in a structured fashion on the emerging issues of materials science and engineering to identify opportunities and challenges to set the mission

21st Annual General Meeting (AGM) of the Materials Research Society of India (MRSI), being organized by **Gujarat Chapter of MRSI**, will be held during 09-11 February, 2010 at Sardar Patel University, Vallabh Vidyanagar. As an integral part of the program, a theme symposium on Advance Ceramic Materials – Monoliths to Composites will also be held.

Materials Research Society of India, Gujarat Chapter invites materials science and engineering community from academia, R & D institutes and industries from across the country and abroad for their participation

and scientific contribution in the 21st Annual General Meeting (AGM) of the Materials Research Society of India (MRSI) and the Theme Symposium Ceramic Materials – Monoliths to Composites to be held during 09-11 February, 2010 at Sardar Patel University, Vallabh Vidyanagar 388 120, Anand-Gujarat, India.



For up to date information of MRSI AGM 2010, please contact the **AGM Secretariat** at agmmrsi21@gmail.com

Dates and Deadlines

Submission of Abstracts - **October 15, 2009**

Intimation of Acceptance - **November 1, 2009**

Registration closes - **January 15, 2010**

Early Bird Registration - **December 15, 2009**

(For final consideration of presentation of a paper, at least one of the authors should be registered)



ABOUT MRSI

The Materials Research Society of India (MRSI), founded in 1989 by Prof. C.N.R. Rao, FRS is an interdisciplinary professional society dedicated to further the cause of Materials Science and Engineering in India and to stimulate accelerated growth of indigenous research and development of a wide range of materials and their applications to cope with the rapid industrial progress in the country. This society is currently presided by **Dr. T. Ramasami, Secretary**, DST, Govt. of India. MRSI functions through 16 regional chapters and 16 subject groups with an aim to fulfill the following objectives:

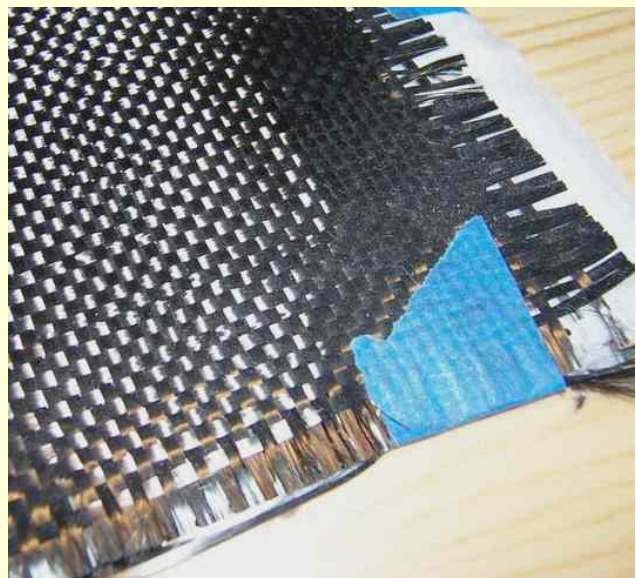
- To promote active interactions among scientists, technologists, engineers and others engaged in basic or applied research, technology development and transfer, application and innovation in the field of materials for rapid industrial progress in the area under its fold.
- To encourage active interactions and cooperation between local laboratories and industries for applications of such materials in all areas such as agriculture, food, health, clothing, energy, water, housing and construction, communication, transport, service instruments and controls, consumer goods, sports, ecology, environment and safety and security.
- To encourage active interactions and cooperation with other local societies and organizations engaged in furtherance of materials research development and application.



- To disseminate knowledge on materials to local organizations, researchers, teachers and student communities through education, short-term training courses, workshops, seminars, symposia, local visits, lectures, publications and other suitable means.
- To provide reorganization of significant contribution of local young individuals in materials research and their applications.
- To provide a local professional forum for discussion of major issues related to materials and their industrial exploitation.
- To promote wide public interest in materials development and their potential using regional means, recourses and diversities and in formulation of policies and measures suitable for attracting investment in research and development in the fields of materials for regional self reliance, economic growth and development and prosperity.
- To take appropriate measures to mobilize local traditional intellectual and other recourses in all possible manners towards fulfillment of these objectives.

The Gujarat Chapter of MRSI, one of the oldest regional chapters, came into being in 90's to emphasize the implementation and fulfillment of the objectives of its parent organization in Gujarat, a hub of Academic organizations and a leading Industrious state.

The 21st AGM program is structured in a fashion including Plenary lectures, Medal Lectures, MRSI Honour Lectures, MRSI-ICSC Award Lectures, G. C. Jain Memorial Lecture, contributory & poster papers covering the latest work of materials science



community and all aspects related to Theme Symposium on Advance Ceramic Materials – Monoliths to Composites covering Raw materials to Processing, Characterization and testing to Application.

The theme symposium of the 21st AGM of MRSI has been chosen to reflect on the importance of this area and also to highlight some of the important and landmark achievements of this ever growing field.

Theme Symposium:

ADVANCED CERAMIC MATERIALS – MONOLITHICS TO COMPOSITES

One of the major challenges for the materials scientists and engineers is to cope with the growing demands for long lasting and reliable materials working under different extreme environments for a range of industries from electronics and communication to chemical and structural industries, power generation to distribution, ground transportation to aerospace, household to fashion design etc. Ceramic materials, white and black, in the form of monoliths, hetrostructured and composites are the obvious solutions to all these problems. Tremendous progress has been made in technology development, manufacturing and commercialization of some of these materials all over the world. However, significant challenges still remain to further develop and improve the properties of these materials, especially in the areas where demanding reliable performance at high temperatures is critically needed. The symposium is aimed at providing a forum for participants from academics, research and development and industrial communities to exchange latest information and progress on various aspects of these materials as well as thrust areas.

The symposium, through a number of plenary, invited talks and selected oral contributions, will highlight different activities in this broad area. A number of leading

experts in this field from India and abroad (from both academia and industry) are expected to attend. The areas to be discussed will include:

Raw Materials

Synthesis, Processing and Sintering

Layered and functionally graded ceramics and composites

Nanostructured Ceramics and composites

Joining of ceramics and composites

Ceramics and Composites for ultrahigh temperature and extreme environments

Thin films and coatings for protective, Tribological and Multifunctional applications

Advanced Refractories

Ceramic matrix composites for thermal management

Ceramics for Energy generation, storage and distribution including fuel cells

Transparent conducting and semiconducting oxides

Biomimetic and Bioceramics

Porous ceramics

Advanced fibers and matrixes for ceramic matrix composites

Processing and Characterization Equipments for ceramic technology

Ceramics for electrical and magnetic applications

New generation nanocomposites

Call for Abstracts – Poster presentation

Abstracts are invited for poster presentations.

Material scientists interested in contributing poster presentation, in any of the specified subject areas, may submit their abstracts.

All abstracts submitted will be peer reviewed by experts before acceptance. All abstracts should be submitted to the AGM Secretariate.

Abstract format

Single page abstracts with a maximum of 300 words (Times New Roman Font) should be submitted in Microsoft Word format. The title should be in 14 pt bold, upper-lower case letters and centered. This should be followed by author's names and affiliations (12 pt - centered) and the abstract text (10 pt) aligned left. A maximum of one figure/graph (resolution 300 dpi) may be added if required and should be inserted in the word document (page size should not exceed one page). **If you have any difficulty in submission, kindly contact the chair at - agmmrsi21@gmail.com**

Registration Fee

Registration payment should be made through DD drawn in favour of , payable at Vallabh Vidyanagar (Gujarat) or Anand, and should be sent along with the Registration Form.

	Before Jan. 15, 2010	After Jan. 15, 2010
MRSI Members	Rs. 2000/-	Rs. 2500/-
Non-members	Rs. 2500/-	Rs. 3000/-
Students	Rs. 1000/-	Rs. 1200/-
Delegates from Industry	Rs. 5000/-	Rs. 6000/-

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About Vallabh Vidyanagar

Vallabh Vidyanagar, established sixty years ago, carries a rarity of purpose behind its origin its development and growth. Strategically located between Ahmedabad and Vadodara, Vallabh Vidyanagar today has emerged to be an Active Educational Hub in the Western parts of India. Just six kilometers from India's milk city 'Anand' it has made its distinct identity in the sector of education by offering numerous emerging and innovative educational programs and by attracting students from across the globe. Anand is situated between Ahmedabad and Vadodara on the main rail-link and also NH8, about 75 kms from Ahmedabad and 40 km from Vadodara.

Vallabh Vidyanagar is blessed with the beauty of nature. Its lush green trees of different types and kinds have not only made the town environment-friendly, but also created a serene and ever-enjoyable peaceful atmosphere generating synergistic pleasure on the campus. The pollution-free climate, attracting many to make the town their permanent home, adds value to the academic life on the campus.



Vallabh Vidyanagar has all the amenities which major metropolises have; rather it has best of both the worlds - glamour of a big city and simplicity of a small town. On one hand, it captures the current trends of the youth, while it attempts to make those trends meaningful by making the presence of different spiritual centers felt.

The town is the synthesis of varied cultures, which enable it to evolve and expand the quality life, as well as to foster the environment of creativity amongst the student citizens. Those who stay here always cherish the golden moments of life on the campus. Today, the town has compounded in strength and consolidated itself to take on the challenges of emerging future.

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