

NATIONAL SEMINAR

On
RECENT TRENDS IN MATERIAL SCIENCE
(RTMS-2019)
18th & 19th March, 2019



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1944 - 2019

— PLATINUM JUBILEE YEAR —
GANGADHAR MEHER
UNIVERSITY

www.gmuniversity.ac.in

Organized by

SCHOOLS OF PHYSICS AND CHEMISTRY
SCHOOLS OF PHYSICS AND CHEMISTRY



National Seminar on
RECENT TRENDS IN MATERIAL SCIENCE
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ABOUT THE SEMINAR

Research on applied science plays a vital role in augmentation of quality of life in humans through innumerable breakthroughs in technologies apropos instrumentations and computational facilities. Material science is one of the frontier areas of the applied science. Hence, research on material science has gone manifold. The discussion on the frontier areas of research in inter-disciplinary streams has always yielded novel ideas and collaborative research. In view of this, the “**Recent Trends in Material Science**” (RMTS-2019) is being planned to muster innovative ideas from interactions among researchers, scientists, academicians, technologists, industry professionals and students. The aim of the seminar is to provide a common platform to share and discuss the novel ideas, technologies and research findings to promote interdisciplinary research on material science and to ignite young brains.

THE GANGADHAR MEHER UNIVERSITY

Gangadhar Meher University (GMU), Sambalpur came into existence on the 30th May 2015 as a unitary institution of higher learning replacing the erstwhile Gangadhar Meher College (Autonomous), one of the oldest and the largest college in western Odisha, owes its origin in 1944. Initially the college was known as Sambalpur College, it was later renamed in 1949 as Gangadhar Meher College after Gangadhar Meher, a renowned Odia poet and a worthy son of the soil.

Presently the University is actively involved in teaching undergraduate and postgraduate programs almost in all major subjects in the domains of science, arts and commerce. The GMU is also promoting research works in the University to meet the needs of the society. This University is serving to the needs of around 6000 students at present and rendering services to the society at large

THE SCHOOLS OF PHYSICS AND CHEMISTRY

The Schools of Physics & Chemistry of G.M. University, Sambalpur, are the oldest and largest Departments in Odisha. The Departments offer programs, like UG, PG, M.Phil and Ph.D. in Physics and Chemistry. These departments have recognition as leading centres not only in the state but also at national and international levels for education and research in physical sciences. The proud alumni of these departments are excelling in various key positions in the academia and also in industries in India and abroad.

OBJECTIVE OF THE SEMINAR

The purpose of the seminar is manifold. The seminar will focus on following different areas of the material sciences and other related areas:

- ❖ Magnetic Nanomaterials
- ❖ Ceramic Materials
- ❖ Nanocomposites
- ❖ Composite Materials
- ❖ Bioceramic Nanomaterials
- ❖ Solar Energy Materials and Cells
- ❖ Fuel Cells
- ❖ Nanomaterials and Nanomedicine
- ❖ Drug Design and Medicinal Chemistry

- ❖ Materials Chemistry
- ❖ Alloys
- ❖ Computational Material Science
- ❖ Metamaterials

It is not easy to give an all-encompassing definition of material science because the subject is very broad and inter-disciplinary. The seminar has been planned to bring the Scholars, Researchers, Academicians and Industrialists on a common platform to deliberate and discuss various emerging dimensions in the above areas that will be beneficial for those in the disciplines. Topics presented and discussed in this seminar will reflect the richness and diversity of all these activities.

The objective of the seminar can be summarised as follows:

- To understand the design, selection and processing of materials for a wide range of applications in engineering, technology and elsewhere.
- To understand how and why the properties of materials are controlled by structure and bonding at the atomic-scale, and by features at the microstructural and macroscopic levels.
- To understand how and why the structure and composition of a material may be controlled by processing.

OUTCOME OF THE SEMINAR

The main outcomes of the seminar are as follows:

- The researchers and academicians, who will visit G.M. University during the seminar, are not only from Odisha but also from all corners of the country, which will increase the perception of the University in many ways.
- The collaborative research work as well as academic activities will be established among faculty members of G.M. University and delegates visiting from outside during this seminar.
- The young students of this university and other HEIs will get on exposure to emerging trends in material sciences which will help them to choose their research career by interacting with the delegates.

CALL FOR ABSTRACTS

On behalf of organizing committee, academicians, researchers and students are invited and encouraged to submit their abstracts in the following format to be selected for oral or poster presentation under various theme topics. All those desirous of participating and/or presenting a paper in the seminar are requested to submit one page abstract along with the duly completed registration form and mail it to the organizing secretary. Abstract should be prepared in MS word (Maximum 300 words, single line spacing, Times New Roman) and leaving 2.5cm in the top and bottom and 3.0cm as left & right side margins. The title (Font Size 14) should be typed in bold followed by Author's name(s) and affiliation (both in font size 12). This should follow the e-mail ID (font size 10) in italics of the authors and the **presenting author** should be **underlined**. Please send abstract by e-mail: nsahu76@gmail.com or nsahu@gmuniversity.ac.in only to the organizing secretary. The acceptance of paper shall be communicated after a proper review. Accordingly oral or poster presentation status of the paper will also be communicated.

WHO CAN ATTEND THE SEMINAR

The seminar is open for all academicians belonging to the faculties of physics, chemistry and related disciplines. Corporate delegates from industries, M.Sc. & M.Phil. Students and Research scholars can also participate in this seminar.

REGISTRATION FEES:

UG/PG/M Phil Students of G.M. University and /or other University	INR 300
Research Scholars	INR 500
Teachers and Academicians	INR 750
Corporate delegates from industries	INR 1500

The above registration fee includes high tea, lunch and seminar kits. Participants can also register on spot by cash payment.

IMPORTANT DATES

Last Date for Abstract Submission	08 th March, 2019
Intimation for Acceptance of Abstract	10 th March, 2019

PAYMENT MODE

By Cash:

Receipt No:

OR

By NEFT Transfer:

Name: HoD Physics, G.M. University

A/C No: 21010110035474

Bank Name: UCO Bank

IFSC : UCBA0002101.

MICR : 768028005

Branch Name: Budharaja, Sambalpur-768004

ACCOMMODATION

No accommodation shall be provided by the organizers. However accommodation can be arranged in hotels and lodges nearby the University by the organizers on payment basis with prior intimation from the participant.

ABOUT SAMBALPUR CITY

Sambalpur is one of the best tourist hubs of Odisha with its rich flora and fauna. The historical monuments, rock hills, large landscapes, Siberian immigrant birds, Sambalpuri handloom become cynosure of all tourists. The Tilted Mandir (Leaning Temple) was built in 1660 and had been leaning since then. It is considered as the single nature made leaning temple in the world. The Hirakud Dam is one of the first major multipurpose river valley projects started after India's independence and is the largest earthen dam in the world. The fragrance of nature is limitless and the tourism enchantment is infinite. Come and enjoy the beauty of nature in Sambalpur.

Chief Patron

Dr. Atanu Kumar Pati, Hon'ble Vice Chancellor
Gangadhar Meher University, Amruta Vihar, Sambalpur.

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Assistant Professor, School of Physics

9437270252, 8917477686

Assistant Organizing Secretary

Mrs. S.S. Mishra

Assistant Professor, School of Chemistry

9938605094

Organizing Committee

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Dr. Niranjan Sahu, Assistant Professor, School of Physics

Mrs. S. S. Mishra, Assistant Professor, School of Chemistry

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Dr. Santosh Dash, Retd. Principal, Women's College, Sambalpur

Dr. S. K. Patel, Retd. HoD, Physics, GM University, Sambalpur

List of Invited Speakers:

1. Prof. (Dr.) S. K. Pandey, PRSU, Raipur
2. Prof. (Dr.) R. C. Agrawal, Pt. Ravishankar Shukla University, Raipur
3. Prof. (Dr.) S. Panigrahi, NIT, Rourkela
4. Prof. (Dr.) P. K. Bajpai, GGV, Bilaspur
5. Prof. (Dr.) K. K. Ghosh, Pt. Ravishankar Shukla University, Raipur
6. Prof. (Dr.) D. Behera, NIT, Rourkela
7. Prof. (Dr.) Karuna kar Nanda, Material Research Centre, IISC, Bangalore.
8. Prof. (Dr.) Manoranjan Kar, IIT, Patna, Bihar
9. Prof. (Dr.) Sukanta Kumar Tripathy, BU, Berhampur
10. Dr. G. D. Hota, NIT, Rourkela
11. Dr. Pratap Kumar Sahoo, NISER, BBSR
12. Dr. Shyama Prasad Mahapatra, NIT, Raipur
13. Dr. Chandra Shekhar Purohit, NISER, BBSR
14. Dr. Hemanta Kumar Kishan, Utkal University, BBSR
15. Dr. A. K. Pattanaik, VSSUT, Burla, Sambalpur
16. Dr. Banarji Behera, SU, Sambalpur
17. Dr. G. Nath, VSSUT, Burla, Sambalpur
18. Dr. Rajib Padhee, SU, Sambalpur





PROFORMA OF REGISTRATION FORM

Registration for National Seminar-2019
“RECENT TRENDS IN MATERIAL SCIENCE”
(RTMS-2019)

School of Physics and Chemistry
Gangadhar Meher University, Amruta Vihar, Sambalpur, Odisha-768004

Name:
Designation:
Address:
..... Pin Code.....
Contact No:
Mail Id:
Title of the Paper:
.....

Will attend the seminar as a participant/presenting a paper

Signature

CONTACT

Dr. Niranjana Sahu
Organising Secretary

E-Mail id: nsahu76@gmail.com or nsahu@gmuniversity.ac.in

Mob: 9437270252/8917477686

Schools of Physics and Chemistry

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