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Dr. Someshwar Pola, Dept. of Chemistry, OU, Hyderabad.

Dr. Eeshwaralah Begari, School of Applied Material Sciences
 Central University of Gujarat, Gandhi Nagar, Gujarat.

Dr. Vamsi Krishna Muppidi, CEO
 Crystal Morphix Technologies Pvt. Ltd., Hyd.

IMPORTANT DATES

Submission of Abstracts	19 February 2022
Communication of Acceptance	20 February 2022
Submission of Full Papers	19 February 2022
Last Date of Registration	21 February 2022

Spot registration will begin one day before the commencement of seminar

Dates of Seminar : 25 & 26 FEBRUARY, 2022

Soft copy of the abstract/paper should be mailed to etcmsr2022@gmail.com

Cell : 9848343772, 9666301229, 9652270009

Registration Fee :

Student	: Rs. 200 /-
Faculty/Teacher / Research Scholar	: Rs. 500/-
Business Executives/ Industry	: Rs.1000/-

Registration Link :

<https://forms.gle/WC4s6fjMmtKdZic8>

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Commissioner of Collegiate Education
RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA)
 Sponsored
 Two Day National Seminar on

"Emerging Trends in Chemical and Materials Science Research"
 (ETCMSR-2022)

25 & 26 FEBRUARY, 2022

Catalyzed & Supported by
National Council for Science & Technology Communication (NCSTC)
 Department of Science & Technology, Govt. of India
 and
Telangana State Council for Science and Technology (TSCOST)
 Dept. of EF&T, Govt. of Telangana

Organized by
DEPARTMENT OF CHEMISTRY
SR & BGNR Govt. Arts & Science College (Autonomous)
 Khammam - 507 002, Telangana, India
 (Reaccredited of B++ by NAAC)

About the College :

Sri Rama and Bhaktha Gentala Narayana Rao Govt. Arts & Science College, Khammam was established in the year 1956 under private management. The then Chief Minister Sri Boorgula Rama Krishna Rao and Sri G.V. Butt, the then District Collector of Khammam took the initiative for its establishment along with a committee formed with the elite of the town. The primary objective was to provide higher education to the students of the marginalized sections and Tribal community of Khammam District. The College was named after the Chief Donor, Sri Gentala Narayana Rao. The College was taken over by the



state government on 1-09-1959 and it acquired permanent affiliation to the Osmania University in 1972. Eventually the affiliation is transferred to the Kakatiya University, Warangal. The motto of the College is 'Enter to Learn, Leave to Serve' with a mission to produce autonomous learners who turn out to be independent, self-contained, confident human resource to the nation. In the long history of its onward march towards imparting quality instruction, supported by technology, the College introduced Eight PG Restructured and Self Finance courses, in addition to the Conventional Courses it has been offering since its inception. With the onset of technology-driven society, the College realized the need to address global demands and began to impart instruction and training in communication, soft and employable skills through a mechanism of its own.

About the Department :

The department of chemistry is one of the oldest departments in this college. The department was established in the year 1956, with B.Sc., with combinations of electives viz. Mathematics, Physics, Chemistry & Botany and Zoology. Currently the department has grown phenomenally with time by academic development. The department of chemistry has five well equipped laboratories & research laboratory catering

to the educational needs of about twelve hundred students, studying chemistry subject which is about 25% of the total strength of the institution.

The department has been offering M.Sc (Organic-Chemistry) with the strength of 30, since 2001. The members of the faculty are specialized in various fields, such as Organic Chemistry, Inorganic Chemistry and Physical Chemistry. The department is receiving funds from UGC & other agencies for academic development activities.

Theme of the Seminar :

Chemistry has provided the back bone in understanding the structure, organization and functions of living matter. The ability of plants to derive energy from sunlight and basic food of living organism are made of chemical and biological structures such as Amino-acids, sugars, lipids, Nucleotides.

Chemists and chemical sciences have been instrumental in the development of modern medicine from diagnostics to drugs and the back bone of Pharmaceutical industry

Corona virus disease (COVID-19) is an infectious disease caused by the SARS-CoV-2 virus. Most people infected with the virus will experience mild to moderate respiratory illness and recover without requiring special treatment. However, some will become seriously ill and require medical attention. Older people and those with underlying medical conditions like cardiovascular disease, diabetes, chronic respiratory disease, or cancer are more likely to develop serious illness.

In this connection it is the time to invent an efficient drug to prevent, cure and control the non-infectious and infectious diseases by developing innovative modes of drug delivery and new approaches to treat diseases, including personalized medicines, regenerative medicine, vaccines and improved biological therapeutics.

Materials for sustainable development is the organizing principle for meeting human development goals, while at the same time sustaining the ability of natural systems to provide the natural resources and ecosystem.

In this two-day national seminar, we focus on various recent developments in material science for achieving sustainable development, especially by covering different branches of material sciences.

National Science Day :

National Science Day is celebrated to spread a message about the importance of science used in the daily life of the people. To display all the activities, efforts and achievements in the field of science for human welfare, it is celebrated to

discuss all the issues and implement new technologies for the development in the field of science. It will give an opportunity to the scientific minded citizens in India, to encourage the people as well as popularize science and technology.

The theme of the seminar is accomplished by focusing the challenges and issues in chemistry and materials science to create a research ambience among the students, research scholars and faculty members, to fulfil the theme behind the national science day celebrations every year.

The seminar will focus on the following key areas.

- ❖ Synthetic and Bio-Organic Chemistry
- ❖ Physical Chemistry
- ❖ Inorganic Chemistry
- ❖ Nano-materials
- ❖ Green Chemistry-Catalysis
- ❖ Natural Products
- ❖ Environmental Chemistry
- ❖ Pharmaceutical Chemistry
- ❖ Smart Materials & Technologies
- ❖ Nano-materials for Sustainability
- ❖ Functional Materials like Polymers and Ceramics
- ❖ Drugs, Pharmaceuticals & Health Care Issues
- ❖ Fossil Fuel materials and Global Warming
- ❖ Renewal Energy Materials

Call for Abstracts / Papers

Original Contributions of ongoing/completed unpublished research work are invited from professionals, scientists, faculty and research scholars. A soft copy of one page abstract in MS word format containing title in capital letters (Times New Roman, font size 14), Authors (font size 12 in bold) and affiliations (font size 12 in italic) followed by the abstract including text, scheme, table and references in brief.

Poster Dimension : The poster for presentation should be 80 cm x 120 cm in vertical position.

The accepted abstracts/papers will be published in the form of seminar proceedings (Souvenir) with ISBN number to commemorate the event. Souvenir containing the full papers/ extended abstracts of oral and poster presentations and plenary/invited talks and advertisements will be printed as a special issue, and will be distributed to all registered delegates, advertisers and sponsors.