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INTERNATIONAL CONFERENCE

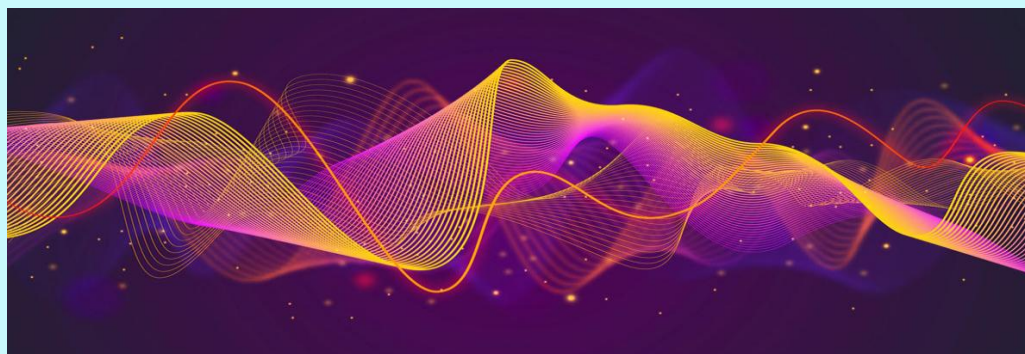
ON

**ULTRASONICS AND MATERIAL
SCIENCE FOR ADVANCED TECHNOLOGY**

(ICUMSAT-2022)

01-03 August, 2022

**Theme: Nano, natural, medicinal, pharmaceutical and
materials science**



Organized by

TELANGANA UNIVERSITY

DICHPALLY, NIZAMABAD,
TELANGANA, INDIA-503 322.

<https://icu2022.tuexams.org>
<http://www.telanganauniversity.ac.in/>

In association with

Ultrasonics Society of India

<http://www.ultrasonicsindia.org/>

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ABOUT THE UNIVERSITY

Telangana University was established through Act, No. 28 of 2006 by the then AP State Government at Nizamabad town. The university is now located in the Dichpally in a sprawling 570-acre main campus abutting the National Highway 44 that connects Hyderabad and Nagpur. The university is offering a wide range of 31 courses (PG, IPG & UG) in different faculties (Science/ Social Science, Commerce, Business Management, Arts, Law and Education). All most all the courses are unique in curriculum nature, very professional and highly job oriented. In less than a decade, Telangana University has emerged as the third largest university in the State. The university also has a well-developed 44-acre South Campus at Bhiknoor in Kamareddy district and a 60-acre Education Campus at Sarangapur on the outskirts of Nizamabad city.

ABOUT THE FACULTY OF SCIENCE

The Faculty of Science at TU is a complete, student-oriented science faculty where research and education are strongly connected. It comprises nine departments *viz.*, Applied Statistics, Botany, Biotechnology, Computer Science, Gio-Informatics, Mathematics, Organic Chemistry, Pharmaceutical Chemistry, and Physics and offers Postgraduate and Doctoral programs in respective disciplines. Our programs prepare students for positions in scientific research and professional careers related to societal themes such as energy, water, food, agriculture, health, innovation as well as careers in entrepreneurship or teaching. Some of the faculty members possess several years of postdoctoral/ industry research experience in reputed institutes around the globe including the USA, Canada, China, EU countries, Japan, Taiwan, South Africa and National Institutes/ MNCs of India. The faculty is involved in thrust areas of research including process chemistry, nano and advanced materials, alternative energies, biotechnology, healthcare, earth-science and sustainable environment and authored articles/ books/ patents. The faculty members are receiving grants from UGC/ DST/ TSCOST/ ICSSR/ MHRD, signing MoU's with renowned institutes, industries, and entrepreneurs for creating new educational /research opportunities for students. Frequent seminars and weekly research discussion attract many distinguished visiting professors to the campus, which further stimulates an active research environment.

ABOUT THE ULTRASONIC SOCIETY

The Ultrasonics Society of India (USI) founded in 1974 at National Physical Laboratory (NPL), New Delhi is actively promoting research and development in ultrasonics and related areas for more than four decades now. It has organized several National and International conferences/ symposia in various parts of the Country, including many of these at NPL. The Society also publishes 'Journal of Pure and Applied Ultrasonics (JPAU)', which is in the 43rd year of its publication. A large number of scientists, manufacturers, academicians, and students have benefited from the membership of the Society. The Society has been headed by eminent scientists with International repute. Prof. Vikram Kumar, former Director, NPL and SSPL, is the current President of USI. The past presidents are Dr. V N Bindal, Dr. A SRamamoorthy, Prof. E S Rajagopal, Dr. Baldev Raj and Dr. Krishan Lal.

To encourage young researchers in the field Society has instituted number of awards VIZ., **Dr. S. Parthasarathy Memorial Award** for the best paper published in the Journal of Pure and Applied Ultrasonics, **Dr. T K Saksena Memorial Award** for best Ph.D. thesis, **Dr. M. Pancholy Memorial Award** for the best oral presentation and **Best Poster Paper Award** for best poster presented at National/International Symposium on Ultrasonics.

The main objectives of the Society are to promote research and disseminate information in the field of Ultrasonics not only amongst professionals but also those having remote interest in this field. To achieve these objectives, the Society has been organizing lectures/ talks by distinguished persons, short-term intensive courses, National and International seminars, symposia, conferences, workshops, exhibitions etc.

ABOUT THE CONFERENCE AND THEME

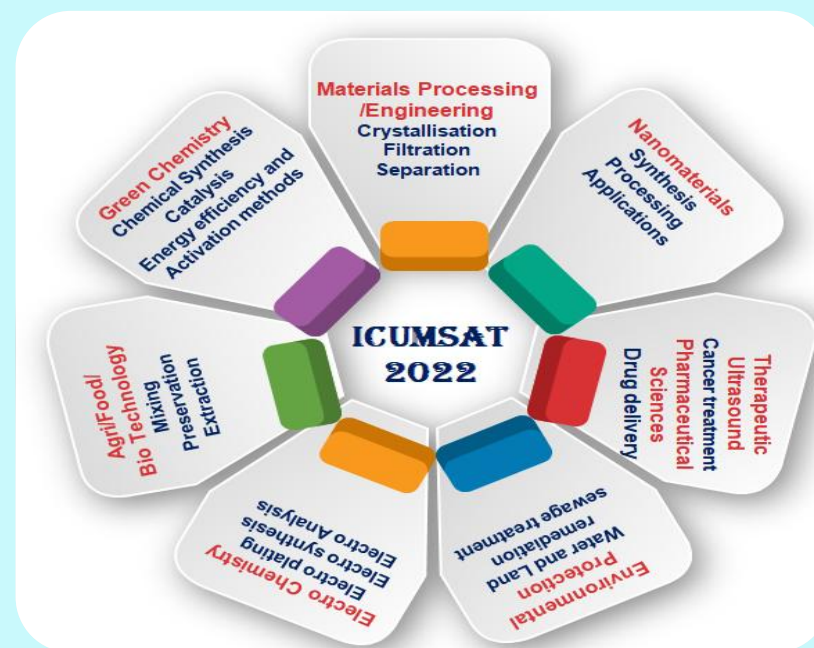
International Conference on Ultrasonics and Material Science For Advanced Technology (**ICUMSAT-2022**) is the 46th conference in the field of Ultrasonics and allied research in India. **ICUMSAT-2022** is being jointly organized by the Faculty of Science, Telangana University and Ultrasonic Society of India (USI) during **01-03, August 2022**.

ICUMSAT-2022 aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results specifically in the area of Ultrasonics and Materials Science for Advanced Technologies. There is a growing use of non-polluting and non-conventional energy sources and activation methods in materials processing, Pharmaceutical/therapeutics, green chemistry,

biology, agriculture/food technology, electrochemistry, environmental protection. Hence, **ICUMSAT-2022** provides a premier interdisciplinary platform for researchers' practitioners, and educators to present and discuss the most recent innovations, trends as well as practical challenges encountered and solutions adopted in the fields of Ultrasonics and allied research ranging from natural science to nano, pharma, engineering, human and space science. A research strategy will be formulated through mutual exchange of views knowledge between young and experienced researchers that would help to fulfill the country's current needs. Keeping these aspects in mind a theme on Ultrasonics in Sciences has been included in **ICUMSAT-2022**

Main Theme and Conference Topics:

- ❖ Practice of Ultrasonics and other non-conventional energy sources and activation methods (microwave/ solar/ Photo/ mechanochemical/ fuel cell and other renewable energy sources) in



- Nanoscience & technology
- Chemical synthesis and extraction
- Advanced Materials synthesis and testing
- Biology/ Biotechnology/ Healthcare
- Pharma/ Medicinal/ Food Science
- Bio-Informatics/ Bio-Chemistry/ Microbiology/ Geo informatics / Geology
- Electronics/ Metallurgy/ Sensors/ Energy Storage/ Under-water range finding
- Natural product extraction and total synthesis
- Environmental Science/ Waste-management
- Space, remote-sensing/ satellite/ reactors/ process engineering and engineered materials
- Devise methods of carrying out organic/inorganic/bio syntheses

Program and Call for Papers

Technical program will include invited talks by experts in various topics within the scope of the conference. Papers received for presentation will be reviewed and accepted for oral or poster presentation. Authors are called to submit original and unpublished abstracts and full papers to Convener, **ICUMSAT-2022** at icumsat2022@gmail.com.

Submission Guidelines

Please submit abstracts electronically (preferably in MS Word, 12 point Times New Roman single spacing with title in 14 point on A4 size page) at icumsat2022@gmail.com. The title line followed by the name(s) of the author(s) (with the name of the presenter underlined) accompanied by their affiliation(s) and email address (es). The abstract of the papers has an upper limit of 200 words with five key words. Full length paper may be in the same format with maximum of 4 pages.

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<https://goo.gl/maps/G8LJxNDeaf0e5Wj48>

IMPORTANT DATES:

Abstract Submission : 11 July 2022
 Acceptance Notification : 18 July 2022
 Full-Paper Submission : 22 July 2022

Registration and Payments

Registration is compulsory for all participants. At least one author per paper has to register for the conference.

Registration fee must be paid through online mode to the “Convener **ICUMSAT-2022**”

“The Registrar Seminar Account”

A/c. No. **31923938006**

SBI, TG University Branch

IFSC Code: **SBIN0013804**

Participants Category	Academia, R&D Organizations & Industries	Scholars/ Student Delegates
International	US \$ 600	US \$ 150
National	Rs. 3000	Rs.1000

Accommodation

Organisers will arrange on request Free hostel/ guesthouse (if available) for the registered outstation participants on a first come first serve basis, and concessional nearby hotel accommodation.

SPONSORSHIP

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