XXII National Symposium (NSU-2017)

on

Advances in Ultrasonics and Materials Research

(October 8-10, 2017)

Organized by

Department of Physics & Astronomical Science,
Central University of Himachal Pradesh, Dharamshala, HP-176215

&

Ultrasonics Society of India, National Physical Laboratory, New Delhi

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Venue

Central University of Himachal Pradesh,
Dharamshala, Dist. Kangra, HP-176215
**Important Dates**

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<td>Submission of Manuscript</td>
<td>September 15, 2017</td>
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<td>Confirmation of Acceptance</td>
<td>September 30, 2017</td>
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<td>Registration</td>
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<td>Request for Accommodation</td>
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**Tentative Invited Speakers**

- Dr. Vikram Kumar, IIT Delhi, President Ultrasonics Society of India (USI)
- Dr. Raja Ram Yadav, Vice Chancellor, VBS Purvanchal University & Vice President USI
- Dr. P. K. Ahluwalia, Department of Physics, Himachal Pradesh University, Shimla
- Dr. Arti Kashyap, Department of Physics, IIT Mandi
- Dr. V. R. Singh, Vice-President, USI
- Dr. Yudhisther Kumar Yadav, (USI) NPL, New Delhi
- Dr. Satish Kumar Dubey, Instrument Design and Development Centre, IIT Delhi
- Dr. Shushil Auluck, Retd. Professor, IIT Roorkee, NPL New Delhi
- Dr. M. Srinivas, Department of Physics, M. S. University of Baroda, Vadodara
- Dr. Prabhakar Singh, Department of Physics, IIT BHU
- Dr. Pawan Kumar Tyagi, Department of Physics, Delhi Technical University, Delhi
- Dr. OSKS Sastri, Department of Physics, Central University of Himachal Pradesh, HP
- Dr. Anil Kumar Yadav, B. R. Ambedkar University, Lucknow
- Dr. Dharmendra Kumar Singh, Govt. Int. College, Allahabad
- Dr. Meher Wan, Indian Institute of Technology, Kharagpur
- Dr. Punit Kumar Dhawan, University of Allahabad, Allahabad

**Objectives and Scope**

The materials have always played a lead role in taking the human understanding of nature to new levels. The research and developments in material sciences and ultrasonics has brought many new materials with never attained desirable properties. These new materials provide the scientists and engineers with vast options to practice their creativity and come up with new technologies for improving quality of life. This conference will bring together eminent experimental and theoretical researchers working in various areas of material science and in the field of ultrasonics to discuss and share their ideas. The main focus of the conference will be around following areas: Nanomaterials and Their Applications; Potential Applications of CVD Techniques; Nanoscale Electronics and Photonics; Plasmonics and Metamaterials; Energy Harvesting Materials, Modern Superconducting Materials: Sensors and Applications; Materials for Optical Applications; Ultrasonics and its Applications in Material Science, NDT; Underwater Acoustics, Biomedical Ultrasound, Sonochemistry, Physical Acoustics; Dirac Materials; Modelling and Simulations of Materials; Multifunctional Materials; Carbon based Smart Materials; Ancient Indian Science & Technology.

**Central University of Himachal Pradesh (CUHP)**

The Central University of Himachal Pradesh has been established under Central Universities Act 2009 of Indian Parliament and has been operating near beautiful city Dharamshala in Himachal Pradesh since 2010. The University is funded and regulated by the University Grants Commission (UGC). Currently CUHP has a total of 11 schools of studies in different areas varying from basic sciences, business administration, and tourism & travel.

The department of Physics and Astronomical Science is one of the departments under School of Physical and Material Sciences. Currently department is offering post graduate (M.Sc.) and undergraduate courses (B.Sc.-Honours in Physics) programs. The main objective of the department is to establish high standards to education, intellectual discourse and professional excellence in tandem with ethical values leading to well-being of the society. Department has highly qualified faculty with expertise in different areas of physics such as Material science, Nuclear and Particle Physics, Astronomical Science, and Nanomaterials. The expertise of faculty varies from hard core theoretical physics to cutting edge areas of experimental physics. In days to come, the department of Physics and Astronomical Science aims to establish state-of-the-art research facilities in different areas of physics and come up as one of the leading groups in research and innovation.
The Ultrasonic Society of India (USI), founded in 1974 at NPL, has been actively promoting research and development in ultrasonics and related areas for more than four decades. It has organized more than 40 National and International conferences/symposia in various parts of the country. Society has instituted awards for encouragement to young researchers and is presented during the annual Symposium. The Society also publishes “Journal of Pure and Applied Ultrasonics” (JPAU). A large number of scientists, manufacturers, academicians and students have been benefited from the Society’s activities (For details visit: www.ultrasonicsindia.org).

Submission of Manuscript

The full manuscript should be typed in the Times New Roman 12 font size with maximum length of 3 pages (including figures). The manuscript should include the title in upper case, name(s) of the authors, the author’s institution(s) with complete address and e-mail with 4-6 keywords. The soft copy (PDF file) of the manuscript should be submitted to aumr.cuhp2017@gmail.com. At least one of the authors should register for the symposium. The paper(s) received without the registration fee will not be included in the conference. The proceedings of the conference will be published in Journal of Pure and Applied Ultrasonics (JPAU) (UGC-Indexed Journal).

Registration Fee

Registration fee covers conference kit, certificate, refreshments, and lunch. Participants have to pay separately for their accommodation. The fees must be sent to Dr. Padmnabh Rai by DD drawn in Favour of Finance Officer, Central University of Himachal Pradesh payable at Dharamshala (HP) or online transfer to university account [Name of the Bank: Canara Bank Dharamshala; Account name: Central University of Himachal Pradesh; Account number: 2062101009593; IFSC Number: CNRB0002062], before the due date to confirm registration.

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Boarding/Lodging

Accommodation will be provided on a “first come first served” basis in different hotels in nearest hotel guest house at negotiated price. Necessary transport will be provided from hotel/guest house to venue of conference. Necessary payment should be made by the delegate to the respective hotel. In case candidates need transport from nearest airport or railway station, organizers can arrange the same for which delegates will have to pay applicable charges.

About Dharamshala

Dharamshala is a place with profile and is known worldwide. Serene Location, pleasant climatic condition, spiritual atmosphere of the location provides an attractive ambience conducive to academic pursuits. Located at footsteps of beautiful Dhauladhar range of Himalayas, the city of Dharamshala's many magnificent places to visit. A few to mention are: McLeodGanj, the home place of renowned spiritual leader Dalai Lama, International Cricket Stadium, Norbulingka monastery famous for beautiful ambience and Tibetan culture, famous Naddi village offering mesmerizing view of Dhauladhar. An exhaustive list of tourist destination near Dharamshala can be found at http://www.hill-stations-india.com/dharamsala/.

Important Note

To encourage young researchers and scientists, the USI society will give the following award:

- Dr. S. Parthasarathy Memorial Award for the best paper published in the Journal of Pure and Applied Ultrasonics,
- Dr. M Pancholy Award for the best oral paper presented at National Symposium on Ultrasonics
- Dr. T. K Saksena Memorial Award, given to a student who has obtained a Ph.D. degree, for his/her work in the field of ultrasonics or allied area
- Best Poster Paper Award from Ultrasonics Society of India
- Best Poster Paper NSU-2017 award from Organizers
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