LIST OF PUBLICATIONS

JOURNAL PUBLICATIONS:

1. **Shashi Kant** and Santwana Mukhopadhyay: "A detailed comparative study on responses of some heat conduction models for an axi-symmetric problem of coupled thermoelastic interactions inside a thick plate", *International Journal of Thermal Sciences (Elsevier)*, 117 196-211 (2017).

2. **Shashi Kant** and Santwana Mukhopadhyay: "Investigation of a problem of an elastic half space subjected to stochastic temperature distribution at the boundary", *Applied Mathematical Modeling (Elsevier)*, 46 492-518 (2017).

3. **Shashi Kant** and Santwana Mukhopadhyay: "An investigation on coupled thermoelastic interactions in a thick plate due to axi-symmetric temperature distribution under an exact heat conduction with a delay", *International Journal of Thermal Sciences (Elsevier)*, 110 159-173 (2016).

4. **Shashi Kant** and Santwana Mukhopadhyay: " Investigation on effects of stochastic loading at the boundary under thermoelasticity with two relaxation parameters", *Applied Mathematical Modeling (Elsevier),* 54 648-669 (2018).

5. **Shashi Kant** and Santwana Mukhopadhyay: "An investigation on responses of thermoelastic interactions in a generalized thermoelasticity with memory dependent derivatives inside a thick plate", *Mathematics and Mechanics of Solids*, (**Under Review**, 2017).

6. **Shashi Kant,** Manushi Gupta, Om Namah Shivay, and Santwana Mukhopadhyay: "An Investigation on a two dimensional problem of Mode-I crack in a thermoelastic medium", *ZAMP* (**Accepted,** *Dec.* 2017).

7. Anil Kumar, **Shashi Kant,** and Santwana Mukhopadhyay: "An in depth investigation on plane harmonic waves under two temperature Thermoelasticity with two relaxation time parameters", *Mathematics and Mechanics of Solids (Sage)*, 22(2) 191-209 (2017).

CONFERENCE PRESENTATIONS:

1. **Shashi Kant** and Santwana Mukhopadhyay: *"An investigation on a two dimensional prob-*lem of Mode-I crack under a heat conduction with a delay*", 6th China- India- Japan- Korea Mathematical Biology Colloquium Cum Conference*, **IIT Kanpur,** August 23-26, 2017.

2. **Shashi Kant** and Santwana Mukhopadhyay: *"Coupled thermoelastic interactions with mem-*ory dependent derivatives under an exact heat conduction with a delay*", International Conference* ON RECENT ADVANCES IN **PDE**: Theory, Computations and Applications, Dept. of Mathematics, **IIT Bombay,** June 8-10, 2017.

3. **Shashi Kant** and Santwana Mukhopadhyay: *"A detailed analysis of the responses of some heat conduction models for a problem of coupled thermoelastic interactions inside a thick plate", International Conference on the Indian Mathematics Consortium (TIMC) in Corporation with the American Mathematical Society (AMS),* **DST (BHU),** December 14-17, 2016.

4. **Shashi Kant** and Santwana Mukhopadhyay: *"On responses of stochastic temperature dis-*tributions at the boundary of elastic half space*", International Conference on Applications of Mathematics in Topological Dynamics, Physical, Biological and Chemical Systems*, **Calcutta Mathematical Society**, December 09-11, 2016.

5. **Shashi Kant** and Santwana Mukhopadhyay: *"Study on coupled thermoelastic interactions in a thick plate due to axi-symmetric temperature distribution", International Conference on Mathematical Modeling and Simulation*, Department of Mathematics, Institute of Science, **BHU**, August 29-31, 2016.

6. **Shashi Kant** and Santwana Mukhopadhyay: *"Study of the generalized thermoelasticity under the stochastic mechanical distribution at the boundary", 32nd Annual National Conference of the Mathematical Society BHU on Recent Trends in Mathematical Analysis and its Applications*, Department of Mathematics, **BHU**, February 17-18, 2017.

7. **Shashi Kant** and Santwana Mukhopadhyay: *"An investigation on coupled thermoelastic interactions in a thick plate due to axi-symmetric temperature distribution under an exact heat conduction with a delay", Poster Presentation in the Institute Day of IIT (BHU)*, April 2-3, 2016 and **secured second position**.

WORKSHOPS ATTENDED:

1. *Attended the Course "Fluid Dynamics and Applications"* Organized by Global Initiative for Academic Networks (**GIAN**) in the Department of Physics, **IIT (BHU)**, Varanasi, September 12-22, 2016.

2. *National Workshop on Mathematical Modeling and Computer Simulation*, Organized by TL CELL **IIT (BHU)**, Varanasi, March 20-21, 2015.

3. *National Program on Differential Equations***:** Theory, Computation and Applications (NPDE-TCA), Organized by Department of Mathematics, **IIT Bombay** and **IIT Kanpur**, 18th May – 4th June, 2015.