

## DESIGN AND MAINTENANCE OF VIBRATORY MACHINES

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### ABSTRACT

The mini-symposium is devoted to the design and maintenance of vibratory machines. The symposium will rise the issues of the processes related to the vibratory machines operation, particularly vibratory transport, screening, vibrating, sorting, vibro-milling etc. It places a strong focus on the correlation and critical assessment of vibration machine theory with engineering practice. Includes the measurement and analysis of the motion of a vibrating point and the deformable surface, as well as the influence of vibratory machines on humans, support structures and the environment.

The main topics of the mini-symposium include:

1. Modelling the motion of vibratory machines and material.
2. Vibrator's self-synchronization.
3. Design principles for vibratory machines, including a new solution for vibratory machines.
4. Experimental research.
5. New measurement technologies in the dynamics of vibratory machines.
6. Vibro-isolation of machines and influence of vibrations on the environment.