

Workshop APPLIED MATHEMATICS: METHODS AND MODELING
CRAIOVA, MAY 7 - 8, 2017

**EXPERIMENTAL RESEARCHES FOR AGEING CURVES DETERMINATION
OF 6061 ALUMINUM ALLOY**

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Abstract: The ternary Al-Mg-Si alloys forms the 6xxx series aluminum alloys which from commercial point of view are the most frequently used due to the ease of processability and for the mechanical properties which they acquire during thermal treatment. The understanding and control of precipitation during artificial aging is critical for achieving optimum mechanical properties in 6xxx alloys. The objectives of this paper are determination and optimization of ageing curves of 6061 alloy. Therefore, an experimental program was conceived to allow investigation of the mechanical properties for various cycles of heat treatment.