

Journal

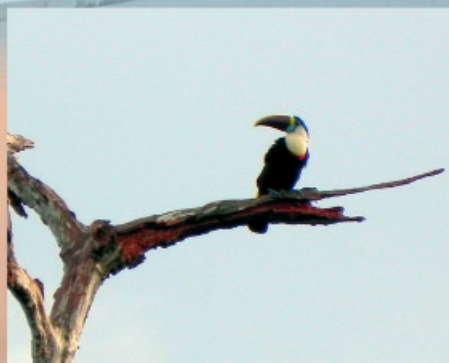
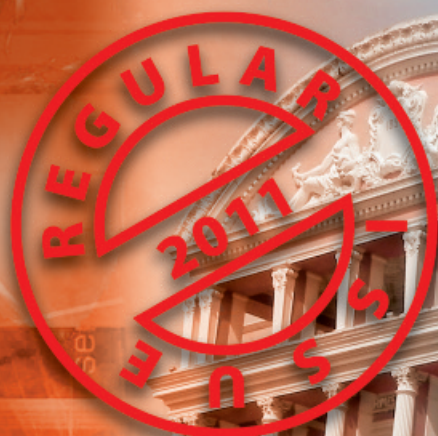
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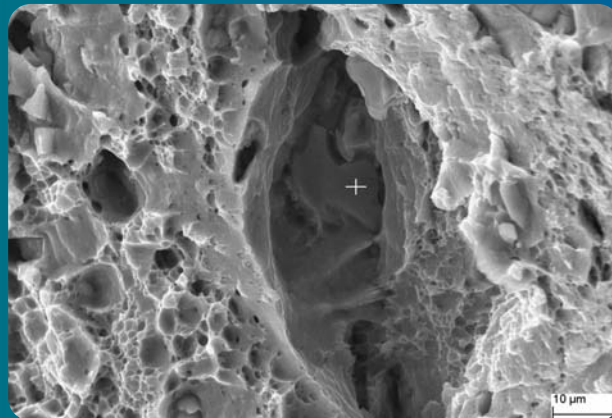
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The paper written by W. Ozgowicz, E. Kalinowska-Ozgowicz, A. Kowalski and K. Golombek on "The structure and mechanical properties of Al-Mg-Mn alloys shaped in the process of thermomechanical treatment" on a **page 148** presents the results of investigation dealing with the effect of heat treatment and low-temperature thermomechanical treatment (LTMT) on the structure and mechanical properties of Al-Mg-Mn alloys. The group of authors aimed to determine the influence of the parameters of low-temperature thermomechanical treatment on the structure and mechanical properties of selected kinds of Al-Mg-Mn wrought alloys and to compare the effects of such treatment with the conventional precipitation hardening of these alloys. The range of researches included: performance of heat treatment and low-temperature thermomechanical treatment of AlMg1,5 and AlMg3,5Mn alloys, making of static tensile tests, measurements of hardness, metallographic observation (TEM) and fractography (SEM). An analysis of the results allows to determine the effect of precipitation hardening and low-temperature thermomechanical treatment on the structure and mechanical properties of AlMg1,5 and AlMg3,5Mn alloys and to determine the effect on the topography of the specimens fracture after decohesion in tensile tests. Moreover, SEM researches allowed to identify the chemical composition of precipitates in the structure of investigated alloys. The obtained results may serve as a basis for optimization of the process of the material used as components of vessels.