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Cover story

On the cover of the given Issue of the Journal of Achievements in Materials and Manufacturing Engineering there can be seen the Ryn Castle and its wonderful courtyard, wholly roofed today and playing the role of the huge conference room, one of the tourist cruises transferring passengers to Mazuria cruise routes and a bird's-eye view of the fragment of the Mazuria Landscape Park. In the Ryn Castle the 16th International Scientific Conference on Achievements in Mechanical and Materials Engineering AMME'2008 and the General Assembly of the World Academy of Materials and Manufacturing Engineering WAMME are organised.



Selected materialographical photo

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The research paper entitled "The influence of kinetics phase transformation during tempering on the mechanical properties of HS6-5-2 steel" by P. Bala and J. Pacyna on a **page 123** describes the kinetics of phase transformations during tempering and the evaluation of the influence of pre-tempering on the properties of HS6-5-2 steel after principal tempering. Moreover, the differences in hardness of samples of the investigated steel in relationship to the heating rate were evaluated. The change of heating rate during tempering has strong influence on the temperatures of beginnings and the ends of individual transitions as well as on the accompanying dilatation effects. It has been stated that in test steel in which remains a lot of retained austenite after hardening, the pre-tempering within the range of cementite precipitation and transformation of retained austenite, adversely affects the properties after principal tempering. It was shown that advance (by pre-tempering) of selected phase transformations during tempering may affect steel properties after principal tempering.