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INDOOR AIR QUALITY ISSUES. CASE STUDY: THE MULTIPURPOSE SPORTS HALL OF THE UNIVERSITY OF ORADEA

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Abstract

The present paper is a multidisciplinary investigation of the indoor air quality inside the Multipurpose Hall of the University of Oradea, based both on specific monitoring and questionnaire-based survey to identify people’s perception in this regard. The monitoring, carried out during October-November 2016 when the heating did not work, was focused on: relative air temperature and humidity (Thermohygrometer data logger Klimalogg Pro), carbon dioxide (CO₂) (Extech Instruments CO250 model automatic gas analyzer), air microflora investigation (Koch sedimentation method in accordance with applicable standards). Monitoring results showed: an optimal level of temperature and humidity, so that sports competitions can be carried out at a good level, and a small to medium level of microbial contamination. The sociological survey showed that only a small percentage of respondents identified negative aspects of indoor air quality or had negative physical symptoms related to poor indoor air exposure.

Key words: air quality, indoor, microclimate, microaeroflora, sports hall

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