

Review on the Scientific Part of the “Fran Bošnjaković Day” at the “Interklima 2009” Symposium

This issue of “Mechanical Engineering” mainly includes papers which were presented during the Scientific section titled “Fran Bošnjaković Day” within the scope of the jubilee 20th International Symposium on Heating, Cooling and Air Conditioning, “Interklima 2009”, held in Zagreb from 23 – 24th April 2009. This is the third time in succession that “Fran Bošnjaković Day” have been held, encompassing the Scientific section of the international symposium “Interklima”, in honour of the distinguished world-renowned thermodynamist, Prof. Fran Bošnjaković.

Scientific papers presented that day are divided into two sections: the first group are papers which broadly cover the area of technical thermodynamics and the area of heat and mass transfer, while the second group of scientific papers includes the area of thermography.

At the jubilee 20th Symposium, “Interklima 2009”, papers received in the first group deal predominantly with the problem of heat transfer i.e. more streamlined exploitation of thermal energy, e.g., among others, papers which tackle the problems of conventional heat pump devices or heat pump devices which exploit heat from the earth’s core, use of solar energy, use of low-temperature (condensation) boilers for heating requirements, gassification of biomass for extraction of gass as an acceptable fuel for exploitation. Hence, the papers presented follow recent trends which are more efficient, using both conventional as well as alternative sources of energy.

The second group of papers received at the 9th Conference on Termography deal predominantly with application of thermography in buildings, for the purpose of detecting undesirable thermal bridges and other in-built flaws which result in increased (unacceptable) thermal losses. Otherwise, application of this non-contact method of measuring temperature has recently been growing more and more, both in the world as well as in the Republic of Croatia. For more than thirty years thermography has been promoted at the Faculty of Mechanical Engineering and Naval Architecture of the University of Zagreb. Way back in 1978, the first thermographic camera was acquired, thus paving the way for the wider application of this technique in the professional and scientific area. Training and certification of personnel for thermographic testing in accordance with the EN 473 standard in the civil engineering, electrical and industrial areas are carried out at the Faculty.

In launching “Fran Bošnjaković Day” within the scope of this symposium, the goal was primarily to stimulate, among others, junior researchers to publish papers. However, experience from the previous three symposia has demonstrated a relatively poor response, although the Scientific Committee strive to ensure that all papers presented within the context of the symposium are published in the scientific journal “Strojarstvo”. Needless to say, an additional condition is that papers receive a positive review in accordance with the criteria laid down by the journal. In this way, once more, we would like to invite all scientists, and especially junior researchers, to become more involved through their papers in the Scientific section of the international symposium “Interklima” and its “Fran Bošnjaković Day”.

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