Guest Editorial

12th International Workshop on 1&2 Dimensional Magnetic Measurement and Testing, 3–6 September 2012, Vienna Austria

Helmut Pfützner, Georgi Shilyashki and Franz Hofbauer

This special volume of IJAEM contains a selection of 19 papers of the 12th of a series of international meetings previously held at several sites of Europe and Japan. The Vienna meeting was aimed at various aspects of magnetic measurement and testing of technically relevant types of magnetic materials. A specific focus was put on 2-dimensional phenomena of magnetization.

The main aim of the event was to bring together academic researchers and industrial engineers in order to report about their current work in the given fields of interest. According to tradition, the number of participants was close to 50 – i.e. small enough to allow for thorough and relaxed discussions of novel advances, developments and unsolved problems. Actually, these aims could be reached in very satisfying ways, not only through a series of interesting lectures, but also through intensive debates in labs, and even during tasting of Viennese wine. One focus of discussions was given by novel versions of test sets, a second one by magnetostriction that tends to gain industrial relevance.

The program of workshop contained two parts:

(i) Current problems of “conventional” (1-dimensional) testing methods and their results (including standardization), and
(ii) Various aspects of 2-dimensional magnetization processes.

The sequence of papers of the present issue follows this program in a flexible way.

All papers have passed through an intensive review process, involving at least two independent reviewers each. Many papers were subject of double revision. Unfortunately, this caused a distinct delay of publication. On the other hand, it favoured a high quality of final manuscripts.

The workshop was organized by the Vienna Magnetics Group and by the Institute EMCE (Electrodynamics, Microwave and Circuit Engineering) of Vienna University of Technology. We would like to thank our co-workers for their support to the event. As well, in a special way, we thank the members of the 2-DM Committees for their contributions to the review of the present papers of workshop.