

## MAG-EL-MAT. A summary

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The Scientific Network *New materials for magnetoelectronics* – MAG-EL-MAT was founded in the beginning of 2003 and its activity was concluded in the first half of 2008. The network gathered over 50 very active research groups, i.e., about 300 scientists from Polish universities and other scientific institutions (mostly from the Polish Academy of Sciences), its general theoretical and experimental goal being to investigate the electronic and magnetic properties of novel materials exhibiting properties useful for creation of new magnetoelectronic devices.

The first MAG-EL-MAT Members Meeting, held in Będlewo between 26 and 28 October 2003, gathered 43 participants from 16 Polish institutions, who appointed the Coordinating Committee, got acquainted with the main programme of the Network and briefly presented the institutions they represented, the main research topics and fields of possible collaboration.

The second meeting on 13–16 April 2004 gathered about 70 members and was divided into 11 short sessions. Nine invited lectures, 17 oral contributions and 9 posters were presented; additionally, 7 special talks were given on the achievements of Centres of Excellence affiliated to various MAG-EL-MAT institutions and on the opportunities available within the framework of the EU programmes.

The number of participants taking part in the third Members Meeting on 2–6 May, 2005, organised into 7 scientific sessions, increased to 102 members and guests. The participants listened to a plenary lecture given by J. Spałek, 11 invited lectures and 21 oral contributions. Thirty eight posters were also presented. For the first time, the organizers decided to print the conference contributions in a regular journal. 50 papers were selected for publication in a special issue of *Materials Science-Poland* [1].

The fourth Members Meeting took place on 3–6 May, 2006 in the form of a series of small seminars (four special sessions) and a plenary session with plenary lectures delivered by J. Kossut and J. Dubowik. The topics selected for the fourth MAG-EL-MAT meeting were biomagnetics and medical physics, strongly correlated electrons

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in spintronics, modern electronics and nanotechnology. The number of participants increased to 104, with 27 oral presentations and 60 posters. Fifty papers were published in the post-meeting issue of *Materials Science-Poland* [2].

In 2007, Mathematical Research and Conference Centre of the Polish Academy of Sciences in w Będlewo and its environs were chosen again for the venue of the fifth Members Meeting (7–10 May 2007). The scientific sessions were devoted to magnetic oxides and intermetallics, surfaces, interfaces, films and layered structures, as well as to quantum transport and quantum computing. The last session of the meeting, entitled *Unusual materials, unusual properties* was more interdisciplinary. A pleasant and memorable meeting in the full springtime Będlewo, far from the city noise, brought together 117 participants. Twenty five oral contributions and 73 posters were presented at the meeting (because of a large number of contributions, two poster sessions were scheduled). Interesting plenary lectures were delivered by J. Korecki and P. Pierański.

This time, as the final collection of post- MAG-EL-MAT members Meeting papers, 63 manuscripts have been selected – more than could be placed in a single issue of *Materials Science-Poland*. At the request of the Publisher, 20 from the accepted papers were published in earlier issues of the journal [3, 4]. The present issue of *Materials Science-Poland*, concluding the series of post-MAG-EL-MAT publications, contains 41 papers. Moreover, 5 selected papers have also been published in *Acta Physica Polonica A* [5].

We are very grateful to all authors for submitting the manuscripts and to all scientists who acted as referees (sometimes it was a difficult job) for their efforts aiming at improving the quality of the papers.

Finally, it is my sad duty to inform the readers that Professor Henryk K. Lachowicz (member of the MAG-EL-MAT Coordinating Committee) will no longer be with us as he has passed away in August 2006. This issue of *Materials Science-Poland* is dedicated to his memory.

### References

- [1] *Materials Science-Poland*, 24 (2006), No. 3, 539–874.
- [2] *Materials Science-Poland*, 25 (2007), No. 2, 261–602.
- [3] *Materials Science-Poland*, 25 (2007), No. 4, 1223–1294.
- [4] *Materials Science-Poland*, 26 (2008), No. 3, 693–765.
- [5] *Acta Physica Polonica A*, 113 (2008), No. 2, 641–668.

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