

10th international conference on cryocrystals and quantum crystals

Almaty, Kazakhstan, August 31 – September 7, 2014

The 10th Cryocrystals Conference was organized by the Scientific Research Institute of Experimental and Theoretical Physics as well as the al-Farabi Kazakhstan National University under the auspices of the Kazakhstan Ministry of Science and Education as well as the National Academy of Sciences of Kazakhstan. Conference sessions were held and all participants were staying at the Alatau Recreational Center at the outskirts of Almaty, a very comfortable abode with two swimming pools, a large park, and even with an 18-hole golf course. Recreational events included two excursions to “higher levels”. One was to the world renowned Medeo ice stadium and then higher to the Chimbulak with its still grassy downhill pistas. The other was to the Grand Almalyk mountain lake almost right at the Kazakhstan-Kirgizia border, where a basket lunch was self served.

The working part of the CC-2014 Conference included 18 invited lectures, 14 oral talks, and 22 posters presentations. An unusual feature of this Conference was active participation of a large group of young scientists, generously supported by the sponsors and organizers. The young researchers gave four oral talks and provided a large percentage of poster presentations. And it should be added that it was the young scientists from Kazakhstan who were responsible for everyday chores like helping with presentations, hotel accommodations, local information, etc.

The Organizing Committee of the CC-2014 Conference expresses sincere thanks for the financial support of the following organizations: Laboratory for Cryophysics and Nano-

technologies at the Kazakhstan National University (Prof. A.S. Drobyshev), Research Institute for Experimental and Theoretical Physics (Prof. O. Lavrishchev), National Nanotechnology Laboratory (Prof. M. Gabdullin), and the Logos Science and Technology Company (Prof. O. Pushkaryov).

Apart from the representatives of Kazakhstan, participants from 13 countries (Russia, Poland, United Kingdom, Ukraine, Finland, USA, Denmark, France, Germany, Japan, Italy, the Netherlands, and Spain) took part in the Conference. For many of the guests an extra stimulus was the unusual venue and the local culture. For those, who did not arrive, these arguments were counterbalanced by the long and costly trip to Almaty and by the need to procure a visa.

Actually, it was already for the third time that Almaty was hosting a Cryocrystals conference. One was way back in 1983 when this Conference was a Soviet national one. The other time it was the first really international scientific event in 1995. It was co-chaired by Prof. Horst Meyer from Duke University, Durham, NC, USA and Prof. Vadim Manzhelii from Verkin Institute, Kharkov, Ukraine. Regrettably, two months prior the start of the CC-2014 Cryocrystals Conference Prof. V.G. Manzhelii after a short decease passed away. By common consent arranged over electronic mail the Almaty CC-2014 Conference was unanimously devoted to his blessed memory. All low-temperature physicists remember Prof. V.G. Manzhelii as an outstanding scientist, a sage adviser, and a jovial character ready to laugh and make laugh.



Horst Meyer and V.G. Mazhelii, Almaty, Kazakhstan, August, 1995.

The material of these CC-2014 Proceedings is basically systemized. Since the page size of every FNT issue is more or less fixed, the overall size of Proceedings turned out to be essentially larger than fit for a single issue. Therefore, in addition to the whole FNT issue 6 of 2015, a few articles are printed at end of issue 7 under a proper heading.

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