Editorial

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This issue contains selected papers that were presented at the 22nd International Colloquium on the Dynamics of Explosions and Reactive Systems, in Minsk, Belarus, in July 2009.

The biennial International Colloquium on the Dynamics of Explosions and Reactive Systems is the reference meeting focusing specifically on dynamic aspects of reactive systems. The conference series has a long history, starting with the initial meeting, which took place in Brussels in 1967, under the initiative of Numa Manson, Antoni K. Oppenheim and Rem Soloukhin. The eighth conference in the series was hosted by Soloukhin in Minsk in 1981. It was appropriate that the 22nd International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS) returned to Minsk, Belarus, where it took place from 27 to 31 July 2009. The local organization was headed by Oleg Penyazkov and Nikita Fomin, Luikov Heat and Mass Transfer Institute, National Academy of Science of Belarus. The program committee was chaired by Andrzej Teodorczyk (Warsaw University of Technology, Poland), with the assistance of Nahiba Chaumeix (CNRS, Orléans, France), Nikita Fomin (Luikov Heat and Mass Transfer Institute, Belarus), Akiko Matsuo (Keio University, Japan), Elaine S. Oran (US Naval Research Laboratory, Washington DC, USA), Forman A. Williams (University of California San Diego, USA) and Allen Kuhl (Laurence Livermore National Laboratory, Livermore, CA, USA).

The conference was well attended, with 305 participants from 23 countries, 171 oral presentations and 60 posters. As in previous years, presenters at the conference were encouraged to submit their work to the most suitable among a choice of journals. The current volume includes papers dealing with combustion in high speed flow and shock waves, whose authors elected to submit to *Shock Waves*. We received total of 20 submissions. These were subjected to the regular *Shock Waves* peer review process. Of these, 4 were rejected and 12 were accepted. There remains four submissions still being processed, which, if accepted, will appear in a regular issue of *Shock Waves*.

The current issue includes six articles on gaseous detonations, two on detonation in heterogeneous media, a study on visualization of compressible vortices, a study of jet ignition, of explosion above a surface, and finally, of mixing in supersonic flow. Geographically, one paper originated from Belarus, three from Canada, two from France, two from Japan, one from South Korea, one from Poland and two from Russia.

Finally, we wish to thank the authors who submitted their papers to this issue and also, the numerous reviewers whose help was crucial in ensuring the high quality of the papers that appear here.

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