

PREFACE

EIGHTH INTERNATIONAL CONFERENCE ON OPEN MAGNETIC SYSTEMS FOR PLASMA CONFINEMENT

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The Eighth International Conference on Open Magnetic Systems for Plasma Confinement (OS2010) was held in Novosibirsk, Russia, from July 5–9, 2010. Participants from six countries took part in OS2010. The program included 46 oral and 49 poster presentations. The scientific program and selection of papers were the responsibility of the International Program Committee. The topics of OS2010 covered various problems of open magnetic systems such as plasma confinement, plasma heating, transport phenomena, magnetohydrodynamic stabilization, plasma diagnostics, direct conversion of energy, plasma-wall interaction, applications of mirror plasmas, mirror-based 14-MeV neutron sources, nuclear technologies based on mirror systems, and prospects of mirror-based reactors. OS2010 was arranged by the Budker Institute of Nuclear Physics.

Selection of papers for publication in *Transactions of Fusion Science and Technology* was the responsibility of the International Program Committee. The papers approved by reviewers for publication are published in the final camera-ready versions provided by the authors.

It has been agreed that the ninth conference (OS2012) will be held in Tsukuba, Japan, in 2012.

The members of the Organizing Committee are grateful to the American Nuclear Society and the publishers for their cooperation in the publication of these proceedings.