

Preface

The solar updraft tower (also: Solar Chimney) power technology (SUTPT) is simple, robust, sustainable, and long lasting technology, producing electric power from solar radiation with low maintenance cost and no cooling water. A SUTPT plant will provide electric power over many decades, up to 100 years. The feasibility of the SUTPT has been demonstrated successfully by the famous Manzanares Prototype and more recently by a number of project studies.

International Conference on Solar Updraft Tower Power Technology, previously called International Conference on Solar Chimney Power Technology, is a series of International Conference being held as an effort to bring together engineers and scientists from academia and industry and to provide a platform for exchange of ideas.

There have been two conferences on Solar Chimney Power Technology successfully held previously: 1st conference was held in Ratingen in February 2009, and 2nd conference was held in Bochum in September 2010. As an effort to bring SUTPT conference international, Huazhong University of Science and Technology (HUST) has been assigned the duty of organizing the 3rd SUTPT conference to be held at HUST, Wuhan from 26-28 October 2012.

The main theme of the 3rd SUTPT conference is to provide directed focus on the state of the art in thermodynamics, fluid-mechanics, structural engineering, as well as comparison of hybrid or alternative energy concepts and it. The associated discussions will facilitate exchanges of ideas and provide guide for research directions in the SUTPT area.

On behalf of the organizing committee of the 3rd SUTPT conference, we would like to extend our sincere appreciation to all the participants and authors; all the members of international scientific advisory; and many colleagues and students of HUST. We hope the conference will encourage joint research in the SUTPT area among researchers, engineers, and students from all over the world in the future.

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