

Title Sorption Thermal Energy Storage: Concept, Progress and Prospects

Speaker Prof. WANG Ruzhu (R.Z. Wang)
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Place I²CNER Hall, Ito campus, Kyushu University

Abstract

Sorption, and chemical reactions used for thermal energy storage have been considered a future great potential product for thermal energy storage from solar, waste heat or even electric heating and etc.. The market thus needs such a “thermal battery”, which should be with a variety of kWhs capacities (1, 10, 100, 1000 or even more), should output with constant temperature at controllable thermal power. This speech shows the various aspects related to sorption thermal energy storage, the materials, systems and demonstrations were described, the detailed future researches and development hot spots were also discussed.

About the Speaker

Prof. WANG Ruzhu (R. Z. Wang), born in Dec.1964, graduated from Shanghai Jiao Tong University in 1984 and 1987 for his bachelor and master degrees, he got PhD from Shanghai Jiao Tong University in 1990 in the field of Refrigeration and Cryogenics, he was promoted as associate professor in Dec. 1992, and professor in Dec. 1994.

His major contributions are adsorption refrigeration, heat pumps, CCHPs and solar energy systems, heat transfer to superfluid helium, and green building energy systems. Prof. Wang has published about 260 papers in international journals, with total citations about 5000 times.

Prof. Wang had been appointed as the director of Institute of Refrigeration and Cryogenics, Shanghai Jiao Tong University since 1993. He was elected as CheungKong Chaired Professor in 2000 by the Ministry of Education (MOE) of China, the top one hundred outstanding professors in China Universities by MOE China in 2007, model teacher of China in 2009, and "National May 1st Labor Medal" of China in 2013.

Currently he is Director- Engineering Research Center of Solar Energy, MOE China, Director-Institute of Refrigeration and Cryogenics, Vice dean of SJTU Energy Institute. He serves also as vice president of Chinese Association of Refrigeration, vice chairman of Chinese Society of Heat Transfer. He is the deputy Editor-in-Chief of **Energy-the international journal**, and also editorial members of a total 10 international journals.

Host: Professor Yasuyuki Takata

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