

Current Status of Research Activities in Japan

Submitted to the Executive Committee Meeting, IAPWS, Stockholm, Sweden, June-July 2015

Japanese National Committee, Chaired by Professor Masaru Nakahara
International Association for the Properties of Water and Steam
c/o The 139th Committee on Steam Properties
Japan Society for the Promotion of Science (JSPS)
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I. Overview:

Recently we focus on the contribution to the activities of IAPWS for the development of such the documents as TGD guidance, guidelines, releases etc. Also our efforts are directed to the effective distribution and bilingual availability of the internationally standardized references among our colleagues. Some fundamental research activities on water and aqueous systems, relevant closely or in future to IAPWS, are actively carried out all over our country as can be seen in the publication list below. They can be characterized by key words, such as water, hydrothermal, solvothermal, solvation, interfacial, organic, ionic, and reactions as well as the traditional. Some of them are presented by our colleagues in the IAPWS annual meeting in Stockholm, Sweden. Updated publication references can be obtained also from them. We often open the national meeting to exchange a wide range of information on the science and technology related to power generation. Industrial and academic people are collaborating in a stimulating manner to seek the present or future problems. Our members cover a variety of IAPWS-related areas and make efforts to seriously consider the improvement of our power cycle systems and operation and safety engineering including the outlet gas treatment to avoid the public nuisance such as air/water/soil pollution. One of the J-Power members, JPE, has been developing “Regenerative Activated Coke Technology as one of the eminent front runners. Now we have begun to prepare the annual meeting of IAPWS in 2017.

II. Recent Publications:

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