Preface

The Fourteenth International Workshop on Spallation Materials Technology (IWSMT-14) was held on November 11-16, 2018, in Iwaki/Fukushima, Japan. The meeting was co-organized by the J-PARC center (Japan Atomic Energy Agency (JAEA), High Energy Accelerator Research Organization (KEK)) and Japan inter-universities (Ibaraki Univ. and Kagoshima Univ.), and supported by Belgian Nuclear Research Centre (SCK-CEN), European Spallation Source ERIC (ESS), Chinese Spallation Neutron Source (CSNS), Los Alamos National Laboratory (LANL), the Paul Scherrer Institute (PSI), and Oak Ridge National Laboratory (ORNL), including a support from Foundation for High Energy Accelerator Science for publication.

For more than twenty years, the IWSMT series has been the premier forum where to exchange the latest information of spallation target related materials research and to discuss open questions from the operation and development of high-power spallation targets. Recently, the scope of IWSMT was extended to the materials research for other accelerator driven systems, particularly the high-power targets for pions/muons production, where similar materials problems with even greater challenges are encountered.

At IWSMT-14, 47 oral and 11 poster presentations reported the progress and achievements in the new and existing spallation neutron sources and accelerator-driven-systems. Although the traditional topics such as the effects of radiation damage, transmutation products and pressure wave on structural materials, the results of post-irradiation examinations (PIE) of spent targets etc. were still the main focus, materials R&D for other high-power accelerator targets were extensively addressed. Furthermore, three experts from this field were invited to join the international organizing committee of IWSMT.

For each IWSMT meeting, the proceedings including selected technical papers were published [1-13]. In the proceedings of IWSMT-14, 32 papers were submitted, including several papers presented some interesting results obtained from recent materials studies of the Fukushima accident, which were presented at the meeting and should be interesting to readers as well.

As the chairman of the international organizing committee, hereby I would like to sincerely acknowledge the local organizers of JAEA, KEK, Ibaraki University, and Kagoshima University for their great efforts towards the success of the meeting, including editing the proceedings.

References


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