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Journal of Nuclear Materials 296 (2001) vii

**journal of
nuclear
materials**

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Preface

These proceedings contain the papers presented at the International Workshop on Spallation Materials Technology, held in Schruns, Austria on October 8–13, 2000. This was the fourth workshop of the series organised jointly by American and European laboratories, which are running or developing spallation neutron sources.

There were 53 scientists coming from Europe, USA and Japan participating in the meeting, and 44 presentations were given on the following topics: the status of spallation target R&D; the effects of radiation damage, hydrogen, helium and transmutation impurities in materials; neutronics calculations and measurements; heavy liquid metal corrosion and compatibility; and materials engineering. Similar to the three previous meetings, there were many papers presenting the latest progress on the issues related to radiation degradation of properties of structural materials. Besides these, a large number of contributions demonstrated very interesting results in the field of heavy liquid metal technology associated with R&D activities on accelerator driven systems. The goal of the meeting has been entirely met. A brief summary highlighting the main results presented at the workshop will appear at the end of the Proceedings.

We would like to thank all participants for their interest and contributions to the workshop. We greatly appreciate the efforts of our colleagues who carefully reviewed the manuscripts. We would like also to acknowledge the financial support received from Forschungszentrum Jülich, Los Alamos National Laboratory, Oak Ridge National Laboratory and the Paul Scherrer Institute.

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