

PREFACE

FIRST JOINT IAEA-ITER TECHNICAL MEETING ON ANALYSIS OF ITER MATERIALS AND TECHNOLOGIES

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The first Joint IAEA-ITER Technical Meeting on Analysis of ITER Materials and Technologies (TM-AIMT) was held November 23–25, 2010, in the Principality of Monaco, in conjunction with the first Monaco ITER International Fusion Energy Days (MIIFED). TM-AIMT aimed to contribute to the development of a knowledge base of properties, processes, and technologies relevant to ITER structural and plasma-facing materials and components, and of the effects of energetic particles and radiation on ITER materials. The topics covered include (a) the fabrication technologies of ITER structural and plasma-facing materials and components, (b) irradiation effects on ITER structural and plasma-facing materials, (c) plasma-material interactions in ITER conditions, (d) synergistic effects of plasma-material interactions and irradiation in ITER, (e) modeling of structural and plasma-facing materials and components in ITER conditions, (f) simulation experiments concerning the behavior of structural and plasma-facing materials and components in ITER conditions, (g) development of new fabrication technologies or materials for ITER, and (h) databases of material properties for ITER. The scientific program of TM-AIMT was established with the help of an international program advisory committee and included invited papers, oral presentations, and poster contributions, complemented by discussion and summary sessions. The present issue of *Fusion Science and Technology* features papers describing some of the material that was presented and discussed at the meeting.

The organizers of TM-AIMT would like to acknowledge the fruitful collaboration with the American Nuclear Society in preparing the publication of this special issue.