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Preface

These proceedings contain the papers presented at the International Workshop on 'Defect Production, Accumulation and Materials Performance in an Irradiation Environment', held at Davos, Switzerland from the 2nd to the 8th of October, 1996. This was the sixth workshop of the series that was inaugurated in 1983, organized jointly by Risø National Laboratory and the Fusion Technology Materials Group of the Centre de Recherche en Physique des Plasmas of the École Polytechnique Fédérale de Lausanne, Swiss-Euratom Association.

A total of 57 scientists from 13 countries participated in the present workshop. The contributions were organized in 25 invited papers, eight posters and four discussion sessions.

The workshop was organized to review and assess the considerable advances which have been made within the last few years in the understanding of the mechanisms of defect production in displacement cascades using Molecular Dynamics simulation in addition to an extensive survey of the latest experimental results on defect production efficiency, and cluster formation. The progress made in the field of irradiation induced defect accumulation and microstructural evolution using Monte Carlo simulation as well as analytical calculations were also reviewed. A brief summary of the presentations and various discussion sessions appears at the end of the proceedings.

We would like to thank all those who contributed to the success of the workshop, not least the participants who presented the papers and took part actively in the lively discussions. We would also like to acknowledge the extensive help from our colleagues in reviewing the manuscripts.

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A. Almazouzi, M. Victoria
EPFL/CRPP-Fusion Technology Materials, Switzerland

B.N. Singh
Risø National Laboratory, Materials Research Dept., Denmark

T. Diaz de la Rubia
Lawrence Livermore National Laboratory, L268, Livermore, CA, USA