



Preface

The Tenth International Conference on Fusion Reactor Materials (ICFRM-10) was organised by Forschungszentrum Karlsruhe, EURATOM Fusion Association. It was held in the congress house at Baden-Baden from 14 to 19 October 2001. This series originated from the Topical Meetings on Fusion Reactor Materials in the United States of America which have been published in *J. Nucl. Mater.* Vols. 85/86 (1979), 103/104 (1981) and 122/123 (1984) and are still worth reading today. The subsequent conferences developed at a global level to the leading materials-specific fusion reactor meetings under the increasing influence of fusion relevant governmental and international institutions. The tenth conference deserves a retrospective view of the preceding ones. The following table illustrates the growth in the number of foreign participants in this series which reflects the achieved international importance of the conference.

No.	Year	Venue	Participants			Published papers			Proc. pages	J. Nucl. Mater. volumes
			Total	Domestic	Foreign	Total	Plenary + Invited	Contrib.		
1	1984	Tokyo	264	185	79	268	24	244	932	133/134 (1985)
2	1986	Chicago	230	124	106	218	60	158	1153	141–143 (1986)
3	1987	Karlsruhe	400	116	284	246	22	224	1381	155–157 (1988)
4	1989	Kyoto	339	–	–	316	26	290	1274	179–181 (1991)
5	1991	Clearwater	318	122	196	292	20	272	1506	191–194 (1992)
6	1993	Stresa	360	45	315	422	16	406	1802	212–215 (1994)
7	1995	Obninsk	≈500	≈300	203	382	17	365	1692	233–237 (1996)
8	1997	Sendai	519	–	–	463	25	438	2804	258–263 (1998), 271–272 (1999)
9	1999	Colorado Springs	321	85	236	310	26	284	1556	283–287 (2000)
10	2001	Baden-Baden	422	88	334	321	23	298	1717	307–311 (2002)

The organisation of ICFRM-10 was provided by the coordinated efforts of a number of committees composed of scientists and engineers from the participating countries, listed on the following page. The paper selection for presentation was conducted by the Programme Committee, commendably chaired by Anton Möslang. The final programme of the conference included five plenary and 22 invited oral lectures as well as 60 contributed oral and 383 poster presentations. According to the list of participants, 422 scientists and engineers attended the conference. Following a careful and stringent reviewing process by the Publication Committee, 321 papers were approved for publication in the present proceedings. For clarity, the papers have been grouped into 16 sections ranging from plasma facing materials to

fundamental defect physics, radiation effects, joining, welding, small specimen technology and materials aspects in conceptual designs. Most sections start with invited papers relevant to the respective subject.

The Guest Editors would like to express their appreciation for all the hard work of the reviewers. Particular thanks are due to Mrs Ingrid Pleli who did a magnificent job in registration and management of the manuscripts. Special acknowledgement goes to Mr Gary Anderton and his successor, Mrs Linda Vaal, from Elsevier Science B.V. for processing the papers in these proceedings.

The Eleventh International Conference on Fusion Reactor Materials (ICFRM-11) will take place at Kyoto, Japan, from 7 to 12 December 2003.

The Guest Editors