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Melt Atomization

and

ICSF V

5th International Conference on Spray Forming

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PREFACE

Since the genesis of the spray forming process – created by A.R.E. Singer during the 70s of the last millennium – more than 30 years have passed by – exactly the duration of a generation of man for growing up and becoming adult. Looking upon the spray forming process today one can recognize that a new technique like this among all the other established and partly competitive techniques also needs such a long period (or even more than 30 years) for coming into common use. Just like a rising generation is faced with enthusiastic phases and periods of hard learning as well as with first application of proficiency this also holds for the spray forming process.

While everything that is counted does not always count, we are convinced that it counts a lot to bring together the world wide growing (and also fluctuating) scientific community working on melt atomization and spray deposition. Offering a steady forum of interaction and feed back from the applicants to the scientists and vice versa, this is why the SDMA goes together with the ICSF, and we think this will stabilize and accelerate the evolution of this community as well as the progresses of the technique in various fields of application.

It also counts a lot to give time for ripening and for understanding the fundamentals that govern the process and the material properties. Therefore the scope of these interdisciplinary contributions after three years of ripening once again ranges from melt atomization, spray forming light metals and steels, thermal spraying, materials processing and process developments to diagnostic and control as well as modelling and simulation and also to post processing and special industrial applications.

As already in the year 2000, again it is a great pleasure for our Bremen group, to host the experts from all over the world in the frame of this conference. Spray deposition and melt atomization as well as the related disciplines are fields of growing research activities, technical importance and scientific fascination. In this context we would like to express our gratitude for delivering the keynote lectures to Prof. Dr.-Ing. Fr.-W. Bach, Dr. J.J. Dunkley and to Dr. P.S. Grant. We would like to thank the invited and contributing speakers for their excellent papers and also the scientific committee and the reviewers for their assistance and their valuable time and last but not least to the organizing committee.

And once again we have to thank the Deutsche Forschungsgemeinschaft (DFG), the industrial sponsors, and the University of Bremen for the financial support of this Conference.

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Bremen, April 2003

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