

# Surface Modification Technologies

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Edited by  
**T.S. Sudarshan  
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Cover photos: "Micro Abrasive Wear Evaluation on WC Coatings with different Binders Applied by HVOF Process."  
Authors: E.A.B. Arnoni, Petrobrás – REPLAN; Campinas, São Paulo, Brazil; R. Nucci, Ogramac; Santo Antonio de Posses, São Paulo, Brazil; A.L. Neto, Escola Eng. De São Carlos; São Carlos, São Paulo, Brazil; L.C. Castelleti, Escola Eng. São Carlos – USP, São Carlos, São Paulo, Brazil; G.E. Totten, Portland State University, Portland, Oregon, USA. Figures show the sample surfaces at the conclusion of a 2200 revolutions fixed-sphere microabrasion test. This test was conducted with both (top) WC-12%Co and (bottom) WC-10%Ni coated test specimens. Mag.: 22.5 X.

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## Foreword

The 20<sup>th</sup> International Conference on Surface Modification Technologies was held between September 25–29, 2006 at the Congress Center in Vienna, Austria in conjunction with the 15<sup>th</sup> IFHTSE meeting sponsored by ASMET. Several hundred people attended the joint sessions of IFHTSE/SMT and delegates from over 30 countries presented papers in the various parallel sessions. All the papers presented in this proceedings were peer reviewed and corrected prior to publication. The meeting was cosponsored by IOM UK and the proceedings is published by ASM International.

Each paper in this proceedings reflects significant work by the authors, some of whom ensured that the practical applications of surface engineering were emphasized. The dedication of the authors and the session chairs in completing their individual sessions on time must be commended along with the excellent interactions at the end of each paper presented. We would like to thank the numerous anonymous reviewers for their generous donation of time and for their patience and assistance to take on this activity at short notice.

We would also like to acknowledge the support of all of the ASMET staff for their excellent organization of the traditional Viennese Heurigger and the conference dinner hosted by the Mayor of Vienna. The SMT organizers would also like to thank Dr Heimo Jager for his patience and ability to do things in a very professional manner. The efforts of Nicolle Mueller and Yvonne Krenn in handling all the numerous enquiries related to the planning and execution of this meeting is appreciated and a special thanks goes to Bob Wood for enabling this meeting of the SMT with IFHTSE.

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**Processing of Materials**

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**Surface Treatment**

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**Vapor Deposition Processes**

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**Wear Resistant Coatings**

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