

## Preface

Hamburg extends an invitation to attend the worldwide unique Expert Congress and Exposition of the joining, cutting, and coating technology from September 26 to 29, 2011, in Hamburg, Germany. Bundled expert knowledge, renowned professional conferences, and research colloquiums, worldwide contacts, and an extensive range of products and services – this is all part of DVS Congress/DVS Expo. This event unites a total of eight important national and international conferences and research colloquiums under the same roof. They include:

- International Thermal Spray Conference and Exposition (ITSC 2011),
- DVS Annual Welding Conference (GST),
- DVS Student Congress 2011,
- 12th Special Conference on Welding in Shipbuilding and Civil Engineering,
- Special Conference: Underwater Technology 2011,
- Robotics\*2011 – Economical production by joining technology automation,
- Final Colloquium on the AiF/DFG-Research Cluster, Arc Welding – Physics and Tools,
- Final Colloquium on the AiF/DFG-Research Cluster, Thermal Spraying.

DVS – The German Welding Society, the ASM Thermal Spray Society (TSS), and the International Institute of Welding (IIW) proudly invite all experts to Hamburg for the International Thermal Spray Conference (ITSC) to exchange their experts' knowledge.

ITSC 2011 offers with nearly 200 lectures and over 160 poster presentations on thermal spray extraordinary information transfer activities. With interlinking of related, renowned conferences and expositions from the field of joining, cutting, and surfacing technology, ITSC subscribes to a state-of-the-art concept, to identify and address novel applications and new users for thermal spray coatings.

Here, the DVS Congress 2011, in conjunction with ITSC 2011, is at an internationally renowned level in the areas of user orientation, conveying industry knowledge, and the exchange of experiences and up-to-date specialized trade information. Altogether, the DVS Congress offers a state-of-the-art information highlight with over 500 technical presentations. The essential focus of the event is not only a practically oriented coupling of research, technology, and qualification/training, but also in particular on generating interest among the various enterprises for an integrated kind of technical-scientific information exchange. To reinforce the position of thermal spray in its existing and future markets, ITSC offers use-oriented application highlights for growing and upcoming applications like

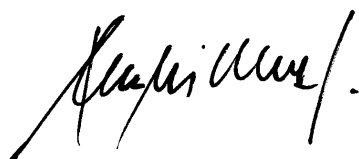
- Automotive,
- Aviation,
- Industrial gas turbines,
- Medical,
- Metals processing,
- Tribological coatings.

With the Young Professionals session, ITSC 2011 offers an ideal stage for promising young talents from both industry and universities.

We thank all authors for submitting their manuscripts and hope that this event will meet your expectations.

Düsseldorf, August 2011

DVS – German Welding Society



Dr.-Ing. Klaus Middeldorf  
General Manager



Dipl.-Ing. Jens Jerzembeck  
Head of Research and Technology