Preface

The aim of the ICTMP 2014 is to present the latest developments in the research of tribological aspects in manufacturing processes. Therefore, subjects like lubrication, surface treatment, simulation or wear phenomena are in the scope of interest. Apart from the everlasting trend to more productive and more environmentally benign tribo-systems and to the fundamental understanding of the tribological regime, new trends in the broad field of tribology in manufacturing processes are emerging. New orientations are given by the processing of new materials e.g. fiber material. Surface hardening and texturing are also central in industrial evolution. In addition to the conferences held in Gifu, Nyborg, Yokohama, Nice and Notre Dame this conference focuses also on the integration of joining techniques into forming processes. The combination of joining and forming operations offers a favorable material utilization along with a high productivity. Since many researchers contributed to that field of research, the conference aims at summarizing recent developments. In addition to insights into current research in the field of tribology, the presentations include practical guidelines for solving tribological questions in an industrial environment.

Plenary keynotes of Prof. Niels Bay, Prof. Ken-ichiro Mori, Prof. Kazuhiko Kitamura and Prof. Pierre Montmitonnet introduce the conference topics. Altogether, the “6th International Conference on Tribology in Manufacturing Processes & Joining by Plastic Deformation” provides an international forum for scientists and practicing engineers from different disciplines to exchange their ideas and experiences. You will have the opportunity to actively contribute to discussions with your colleagues in a relaxed atmosphere in order to stimulate the generation of new ideas and solutions for tribology related challenges of our time.

I would like to thank all authors of the 74 contributions to this conference and especially the Scientific Committee whose members worked hard to review the papers and improve their quality.

Peter Groche
Chairman, ICTMP 2014
Scientific Committee

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