PREFACE

Preface

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These proceedings contain selected peer-reviewed papers from the International Conference on Advanced Materials and Manufacturing Processes for Strategic Sectors (ICAMPS 2018) organized by the Indian Institute of Metals, Trivandrum Chapter, during 25–27 October, 2018, at Thiruvananthapuram, Kerala, India.

As you all are aware, the scientific and technological advancements in the strategic sectors like aerospace, nuclear research, defense and energy had motivated and driven the development of newer materials with better properties and their use in extreme conditions. In this connection, the Indian Institute of Metals, Trivandrum Chapter, had successfully organized the ICAMPS 2018 which aimed at providing a platform for the experts from various R&D laboratories, academic institutions and industries to share their scientific and technical experience as well as results of their work on relevant topics. The conference also endeavored to facilitate interactions on latest global trends and issues in this area.

We are writing this preface, as editors of the special issue for the Transactions of the Indian Institute of Metals, with a great sense of satisfaction, that the conference had been rich in technical content. True to its international character, very eminent speakers from abroad and India delivered lectures in their area of expertise. We have tried to cover all the strategic sectors from academia and industry in the technical program.

More than 370 abstracts were submitted, and corresponding poster presentations were made during the

conference. One hundred thirty-five full-length papers out of the abstracts submitted were selected subsequently for submission for the peer review. After a thorough and multilevel peer-reviewing by the subject experts in the field, 60 papers have been finalized and recommended for publication in the special issue of the ICAMPS 2018 Proceedings in the TIIM. The recommended papers have been of very high technical content and represent the latest development in the field of materials and manufacturing techniques spanning from fundamentals to new technologies and applications. We sincerely believe that this special issue will be a very valuable reference for the young and established researchers in the materials development, manufacturing technologies and applications who seek to understand the fundamentals of materials, structure–property correlation and newer manufacturing technologies.

We wish to express our gratitude to all the authors who have submitted their papers for publication in the special issue. We record our heartfelt appreciation to all the reviewers for the enormous job of helping in finalizing high-quality papers for publication in the special issue of TIIM. Sincere thanks are due to the ICAMPS 2018 organizing committee and other subcommittees including the technical committee for all the support and cooperation in bring out this special issue. Finally, we wish to thank Prof. BS Murty, chief editor, TIIM, and Dr.R.Sandhya for their support in bringing out these proceedings.

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