

Residual Stresses 2016
ICRS-10

Edited by

Thomas M. Holden
Ondrej Muránsky
Lyndon Edwards

This book presents the proceedings of the Tenth International Conference on Residual Stresses which was devoted to the prediction/modelling, evaluation, control, and application of residual stresses over a wide range of applications. New developments on stress-measurement techniques, on the modelling and prediction of residual stresses and on progress made in the fundamental understanding of the nature of residual stresses are highlighted. The proceedings offer an overview of the current understanding of how residual stresses affect the properties of materials, components and structures.

Residual Stresses 2016

ICRS-10

10th International Conference on Residual Stresses
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Preface

ICRS-10, the 10th International Conference on Residual Stresses, was held at the Novotel Sydney Brighton Beach Hotel at Brighton Le Sands, Sydney between the 3rd and the 7th of July 2016.

ICRS-10 was the latest of a highly successful series which started in Garmisch-Partenkirchen (Germany) thirty years ago and continued in Nancy (France, 1988), Tokushima (Japan, 1991), Baltimore (USA, 1994), Linköping (Sweden, 1997), Oxford (UK, 2000), Xi'an (China, 2004) and Denver (USA, 2008) and, again in Garmisch-Partenkirchen (Germany, 2012).

The conference continues to be the key forum for scientists and engineers interested in the prediction, evaluation, control, and application of residual stresses. ICRS-10 featured 149 oral and 30 poster presentations given to 206 predominantly international attendees from 31 countries.

Publication in these proceedings was voluntary and after peer review a total of 102 papers are included in these proceedings. This could not have been achieved without the very significant efforts of both reviewers and authors. Without this work these proceedings could not exist and I would like to thank them on behalf of the community.

I hope that all those who attended would share my opinion that ICRS-10 was a vibrant, exciting and productive conference and that these proceedings give some sense of the success of ICRS-10 to the reader.

Finally, I would like to thank the members of both the ICRS Scientific Board the ICRS-10 Organizing Committee without whose tireless work ICRS-10 would not have succeeded

Lyndon Edwards
Chair, ICRS-10

December, 2016
Sydney, Australia.

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