

# Heat Treating

Including

*Advances in Surface Engineering:  
An International Symposium in  
Honor of Professor Tom Bell*

and

*Professor Jerome B. Cohen Memorial Symposium on  
Residual Stresses in the  
Heat Treatment Industry*

Proceedings of the 20th Conference

9–12 October 2000  
St. Louis, Missouri

Edited by  
*Kiyoshi Funatani*  
*George E. Totten*



An Affiliate Society of ASM International

ASM International®  
Materials Park, OH 44073-0002  
[www.asminternational.org](http://www.asminternational.org)

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First printing, February 2001

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ISBN: 0-87170-727-6  
SAN: 204-7586

ASM International®  
Materials Park, OH 44073-0002  
[www.asminternational.org](http://www.asminternational.org)

Printed in the United States of America

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# Preface

The 2000 annual ASM Heat Treating Society Conference and Exposition was held in St. Louis, Missouri. A number of excellent international symposia were held including: Advances in Surface Engineering: An International Symposium in Honor of Professor Tom Bell Professor Jerome B. Cohen Symposium on Residual Stresses in the Heat Treatment Industry, Symposium on Retained Austenite, Symposium on Quenching and Distortion, and others. Taken together, these symposia provided the ASM-HTS membership with an outstanding, state-of-the-art overview of the most vital technologies of importance to the heat treating industry today.

These proceedings are a product of the Annual Heat Treating Society Conference. Submission of manuscripts was not a requirement for speaking at the conference; consequently, there are some speakers who chose not to prepare a manuscript. Many of the speakers at the conference conscientiously agreed to spend the time and effort necessary to prepare these manuscripts. We certainly wish to express our appreciation to these authors.

We also thank you, the attendees, for participating in this event. You are the most important part of this activity. Conferences are not only important for the information exchanged, but even more importantly, they are an absolutely vital part of professional growth through the formation of an international network of colleagues.

For planning purposes, please note that the 2001 Annual Conference and Exposition will be held 5 to 8 November 2001, in Indianapolis, Indiana, USA.

**Kiyoshi Funatani, Ph.D., FASM**  
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