

## FOREWORD

*Ten years ago P. DUWEZ introduced the so-called splat-cooling technique of ultra-rapid quenching from the melt. Ever since it has been relatively easy to prepare a wide variety of super-saturated metallic solid solutions, and new metastable, sometimes even amorphous phases, unobtainable by classical procedures. Thus new possibilities of systematic choice of materials for comparative studies of their properties have been opened to metal physicists and physical metallurgists. The contributions to the Brela Conference treat mainly the preparation and investigation of structural, electrical and mechanical properties of these new, metastable metallic materials. These efforts are at their very beginning and the entire field is yet to be explored. Nevertheless, one feels confident that by systematic and careful observations and measurements, on judiciously chosen series of these new alloys, important regularities and, possibly, fundamental laws will ultimately be discovered.*

*Zagreb, 22th November, 1970*

M. PAIĆ

The Conference was jointly sponsored by:

*INTERNATIONAL UNION OF PURE AND APPLIED  
PHYSICS*

*EUROPEAN PHYSICAL SOCIETY*

*YUGOSLAV ACADEMY OF SCIENCES AND ARTS*

*FEDERAL FUND FOR SCIENTIFIC WORK, BEOGRAD*

*REPUBLICAN FUND FOR SCIENTIFIC WORK, ZAGREB*

*The edition of this Supplement is financed by the Yugoslav Federal Fund for  
Scientific Work.*

*The contributions in this Supplement are invited papers and communications at the »Conference on Metastable Metallic Alloys« held in Brela, September 28–30, 1970. After the Conference the following Committee agreed that all the contributions may be published in this Supplement.*

*A. Bonefačić*

*R. W. Cahn*

*P. Duwez*

*N. J. Grant*

*A. Guinier*

*B. Leontić*

*M. Paić*

The Conference was opened by professor M. Paić, in these terms:

*Mr. Chairman, Ladies and Gentlemen,*

*It is a great honour and pleasure for me to greet, on behalf of the organising committee, the distinguished lecturers, the contributors and other participants of the Conference on Metastable Metallic Alloys which is, I suppose, the first of its kind.*

*I wish that you enjoy the enrichment of your knowledge on this special subject and contribute to the success of the Conference by substantial and active discussions, not only in this room but also in its Arcadian environments.*