

FOREWORD

The idea of organizing this series of Conferences has occurred to us some 15 years ago. By this time the technology of rapid solidification and preparation of amorphous metallic ribbons has already established its successful existence in our Institute of Physics of the Slovak Academy of Sciences in Bratislava under the leadership and thanks to the efforts of Dr. Pavol Duhaj. His intense work has stimulated the interest of scientific workers around him and has given rise to the formation of a fertile hot-bed of young scientists, many of which are now participating as self-standing research fellows at this conference.

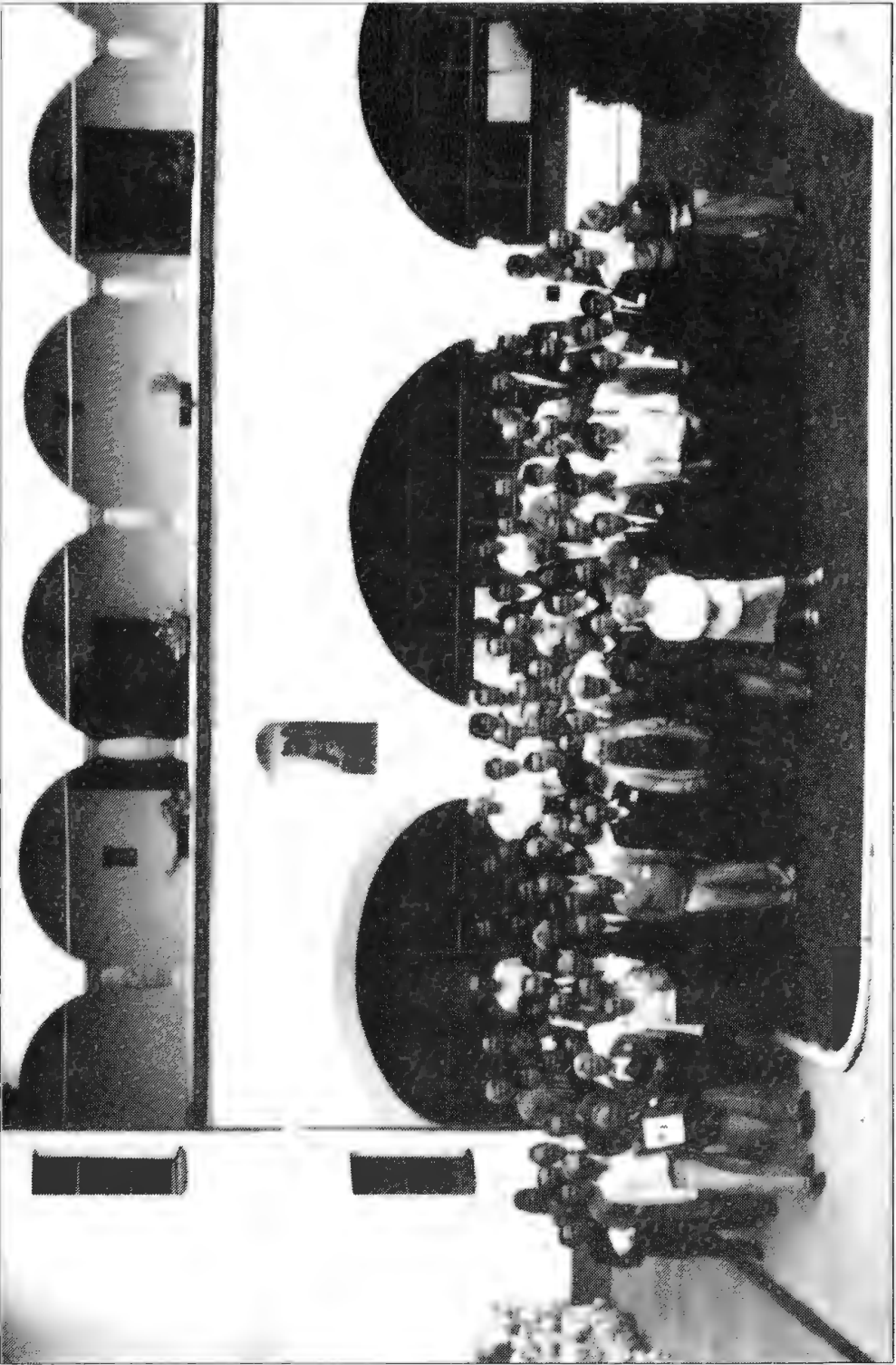
Thanks to the discovery of new physical phenomena and to the developments in technology the field of research of amorphous materials, especially metallic glasses, is very much alive and still developing in spite of its, by now relatively long, age. Its vivacity is proven by the existence of derived, or transformed, and closely related fields of interest. Besides classical research on glasses from the viewpoint of physics and applications, notable interest has been evoked by the research on quasicrystals, solid state amorphisation reaction, multilayered structures in metallic glasses and thin films and, more recently, nanocrystalline structures formed from metallic glasses, to mention only a few. Others, such as brazing foils and special steels prepared by rapid quenching stimulate further interest. It is our hope that there will come discoveries of still new physical phenomena hand in hand with new methods of preparation of physically interesting materials giving us the opportunity for further exciting research and for a better understanding of the nature and the world around us in general.

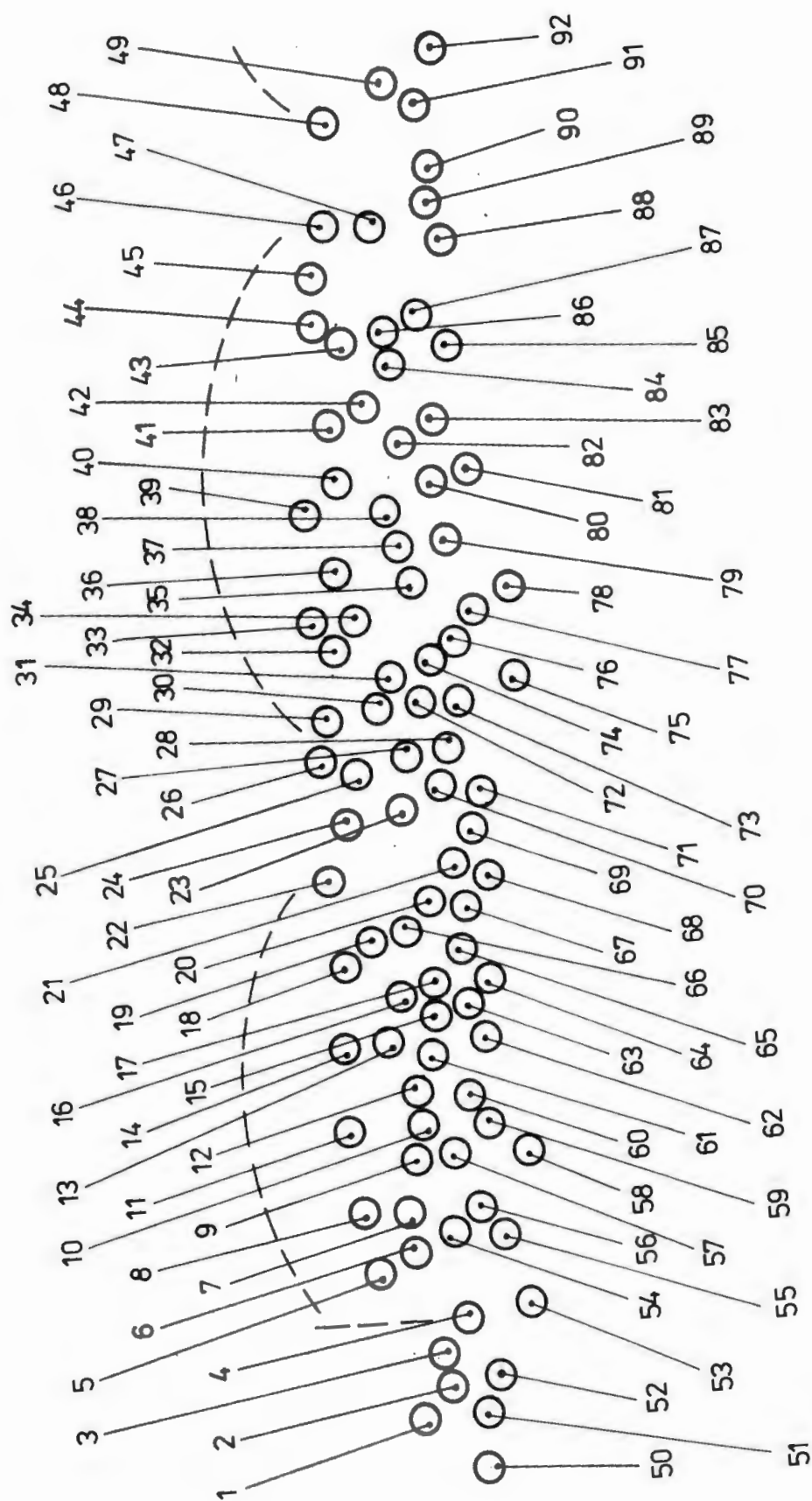
The previous two conference have taken place at the Smolenice Castle in 1978 and 1989. As our number has increased and our scope and interests have broadened, in this third of the series of conferences we were hosted by another of the beautiful castles of Slovakia. It is our sincere hope that the traditionally fertile conference atmosphere has been preserved and that it has rendered this meeting scientifically successful and socially agreeable.

The Proceedings includes invited talks and contributed papers presented at the Third International Conference on Amorphous Metallic Materials. We have also included the authorized texts of two (which is a little bit unusual, but we have found it interesting) concluding remarks by Prof. Inoue and Dr. Cowlam.

The conference has been organized by the Institute of Physics of the Slovak Academy of Sciences in Bratislava, Czecho - Slovakia.

We would like to thank all the authors for giving their manuscripts available for publication in this Proceedings. We also express our gratitude to Trans Tech Publications for publishing this Proceedings





List of AMM III participants on the photograph

01 Heczko Oleg	24 Latuch Jerzy	47 Paderno Dmitrij Ju.	70 Conde-Amiano Clara
02 Duhaj Pavol	25 Bengus Vladimir	48 Jergel Matej	71 Matyja Henryk
03 Kirchmayr Hans	26 Holla Gabriela	49 Vlasak Gabriel	72 De Jong Martein
04 Duine Peter A.	27 Kuhnast France-Anne	50 Kraus Ludek	73 Kaczowski Zbigniew
05 Sitek Jozef	28 Petrovic Pavol	51 Schumacher Peter	74 Picon Maria
06 Novotny Igor	29 Neuhauser Hartmut	52 Mrafko Peter	75 Sato Turtelli Reiko
07 Jiraskova Yvonna	30 Swierczek Jan	53 Hargitai Czaba	76 Grossinger Roland
08 Ocelik Vaclav	31 Otero Antonio	54 Baricco Marcello	77 Inoue Akihisa
09 Kristiakova Katarina	32 Kruger Peter	55 Lovas Antal	78 Luchavova Alzbeta
10 Koster Uwe	33 Kubicar Ludovit	56 Tabachnikova Elena	79 Loser Wolfgang
11 Janickovic Dusan	34 Zbrozczyk Jozef	57 Greer A.Lindsay	80 Kalva Zdenek
12 Tiberto Paola	35 Kiss Laszlo	58 Kisdi-Koszo Eve	81 Mizoguchi Tadashi
13 Stojanova Lilijana	36 Muller Manfred	59 Varga Lajos Karoly	82 Cowlam Neil
14 Skorvanek Ivan	37 Brzozka Katarzyna	60 Zaveta Karel	83 Haddad-Sabzevar Mohsen
15 Frank Ellinor	38 Jacobson Nils	61 Ratzke Klaus	84 Boldrick Michael S.
16 Ferrara Enzo	39 Matko Igor	62 Shvets Valerij	85 Bohac Vlastimil
17 Guyot P.	40 Mattern Norbert	63 Butvin Pavol	86 Haslar Vladimir
18 Brovko Ivan	41 Porscha Bernhard	64 Filipecki Jacek	87 van den Beukel A.
19 Russew Krassimir	42 Hunt John	65 Butvinova Beata	88 Lai San-Kiong
20 Zemcik Tomas	43 Sinning Hans-Rainer	66 Frank Werner	89 Gawior Wojciech
21 Millan Maria	44 Haruyama Osami	67 Calka Andrzej	90 Yang-Quan Min
22 Sassik Herbert	45 Spassov Tony	68 Aharoune Ahmed	91 Vojtanik Pavol
23 Horubala Tomasz	46 Vavra Ivo	69 Burzynska-Szysko Maja	92 Illekova Emilia