

ADVANCES IN CERAMICS • VOLUME 24A

SCIENCE AND TECHNOLOGY OF ZIRCONIA III

Edited by
Shigeyuki Sōmiya
Noboru Yamamoto
Hiroaki Yanagida



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On the cover: High-frequency torch operating with $\text{AlCl}_3/\text{ZrCl}_4$ vapor mixture
injected into the tail flame. (See S.C.H. Koh, K.K. Aik, and R. McPherson,
"Sintering Characteristics of $\text{Al}_2\text{O}_3\text{-ZrO}_2$ Plasma-Synthesized Powders,"
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Foreword

The Third International Conference on the Science and Technology of Zirconia (Zirconia '86) was held in Tokyo, Japan, on September 9 and 10, 1986. The First Zirconia conference had been held in Cleveland, Ohio, in 1980 and was chaired by Professors A.H. Heuer and L.W. Hobbs. The Second International Conference took place in Stuttgart, FRG, in 1983 and was chaired by Drs. Nils Claussen and Manfred Rühle.

166 papers were presented at Zirconia '86 in Tokyo. 438 people participated in this international conference; of this number, 269 participants were Japanese and 169 were from the U.S., Australia, France, FRG, Israel, India, Canada, Yugoslavia, Iran, The Netherlands, Great Britain, China, Italy, Korea, Sweden, U.S.S.R., Denmark, Belgium, Finland, and Spain.

The Third International Conference covered developments in Zirconia research and development that had occurred since the Second Conference, and it also covered the future of Zirconia study. The proceedings of Zirconia '86 have been published by two publishers. Some papers were published by Uchida Rokakuho Publishing Company, Ltd., Tokyo, Japan. The balance of the papers appear in this volume of *Advances in Ceramics*, published by The American Ceramic Society, Inc. All of the papers that were presented in Tokyo have been published in one of these two places.

We extend our thanks to the speakers, session chairpersons, participants, and the staff of the Organizing and Executive Committees.

Shigeyuki Sōmiya
Noboru Yamamoto
Hiroaki Yanagida

September, 1988

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