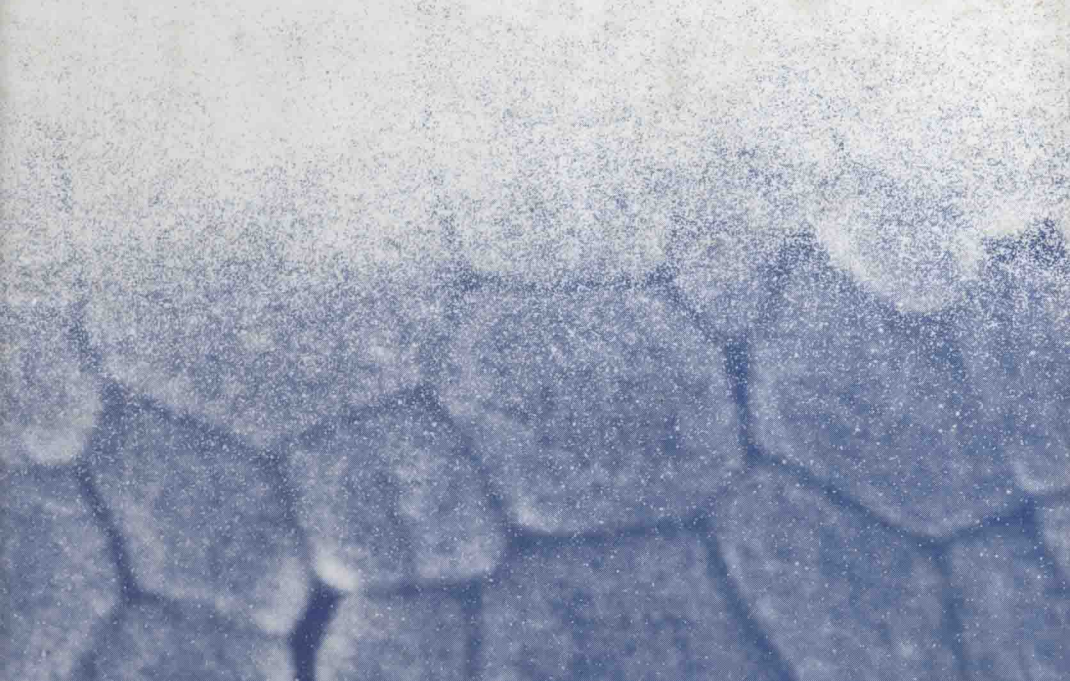


Volume 1

Ceramic Transactions

CERAMIC POWDER
SCIENCE

Gary L. Messing • Edwin R. Fuller, Jr. • Hans Hausner



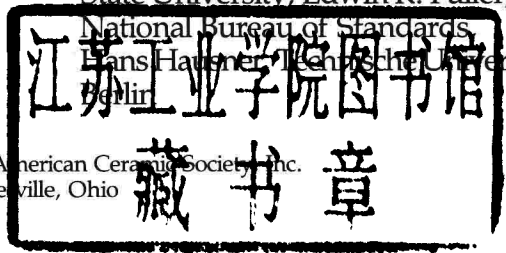
Volume 1

Ceramic Transactions

CERAMIC POWDER SCIENCE II

Edited by Gary L. Messing, The Pennsylvania
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Berlin

The American Ceramic Society, Inc.
Westerville, Ohio



Proceedings of the First International Conference on Ceramic Powder Processing Science held in Orlando, FL, on November 1-4, 1987.

LIBRARY OF CONGRESS

Library of Congress Cataloging-in-Publication Data

International Conference on Ceramic Powder Processing Science
(1st : 1987 : Orlando, Fla.)

Ceramic powder science II / edited by Gary L. Messing, Edwin R. Fuller, Jr.,
Hans Hausner.

p. cm.

"Proceedings of the First International Conference on Ceramic Powder Processing Science held in Orlando, FL, on November 1-4, 1987"—T.p. verso.

Cosponsored by the American Ceramic Society and the Deutsche Keramische Gesellschaft.

Includes indexes.

ISBN 0-916094-31-6 (set). ISBN 0-944904-09-2 (v. A). ISBN 0-944094-10-6 (v. B).

1. Ceramics — Congresses. 2. Powders — Congresses. I. Messing, Gary L. II. Fuller, Edwin R. III. Hausner, Hans. IV. American Ceramic Society. V. Deutsche Keramische Gesellschaft. VI. Title.

TP815.I56 1987

666 — dc19

88-3666
CIP

ISBN 0-944904-09-2 (Part A)

0-944904-10-6 (Part B)

0-916094-31-6 (2-volume set-Parts A & B)

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Printed in the United States of America

1 2 3 4 5—95 94 93 92 91 90 98 88

Foreword

This volume contains the proceedings of the 1st International Conference on Ceramic Powder Processing Science held in Orlando, Florida, on November 1-4, 1987. The meeting was co-sponsored by the American Ceramic Society and the Deutsche Keramische Gesellschaft and coorganized by Drs. Gary L. Messing, Edwin R. Fuller, Jr., and Hans Hausner. More than 400 scientists and engineers from university, industry, and government laboratories attended the conference with 153 papers contributed from Brazil, Canada, China, England, France, India, Italy, Japan, Korea, Mexico, Spain, Sweden, Taiwan, the United States, and West Germany.

This book contains 16 of the 19 invited presentations and 112 of the 134 contributed papers selected after on-site peer review. The meeting organizers would like to acknowledge Martin Harmer, Jim Adair, Robert Cook, David Payne, Michael Sacks, Mark Janney, Raj Bordia, John Blendell, Mufit Akinc, Steve Danforth, James McArdle, Bill Minehan, John Kelso, Derek Sproson, Nancy Tighe, and Oh Hun Kwon for their able assistance in coordinating manuscript reviews. Also, the assistance in handling the "behind the scenes" details by Debra Horn, Mianxue Wu, Shi Chang Zhang, Gye Song Lee, and Jill Glass is particularly appreciated.

The meeting, and thus this volume, was organized to reflect the intimate connections between all phases of powder processing and the final ceramic properties. The speakers were invited from a diversity of scientific disciplines to present the scientific foundations for many of the individual process steps and to determine the scientific status of these various processes. The focused areas for discussion include Solution Synthesis, Vapor Synthesis, Powder Dispersion, Processing Additives, Forming, Sintering, and Ceramic Property and Powder Processing Relations. Finally, it was the goal of the meeting organizers to bring together experts in various aspects of ceramic processing and their ceramic property counterparts so they they identify their common interests and thus form collaborations that will result in improved and more reliable advanced ceramics.

January 6, 1988
Edwin R. Fuller, Jr.

Gary L. Messing
Hans Hausner

Ceramic Transactions is a new proceedings series designed to meet two needs: high quality content and rapid publication. Volumes in the series come from meetings, symposia, and forums. Each paper is reviewed by two peers, and final manuscripts are prepared by authors in a “camera-ready” format. The volumes in this series would not be possible without the hard work, dedication, and cooperation of editors, reviewers, and authors, who all deserve a great deal of thanks.

Your comments, questions, and suggestions for future *Ceramic Transactions* volumes are welcomed and should be addressed to the Director of Publications, The American Ceramic Society, Inc.

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