

# Pesticide Formulations and Application Systems: 23rd Volume

**STP 1449**

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**INTERNATIONAL**

Standards Worldwide

STP 1449

***Pesticide Formulations and  
Application Systems:  
23<sup>rd</sup> Volume***

*G. C. Volgas, R. A. Downer,  
and H. B. Lopez, editors*

ASTM Stock Number: STP1449



ASTM  
100 Barr Harbor Drive  
PO Box C700  
West Conshohocken, PA 19428-2959

Printed in the U.S.A.

**Library of Congress Cataloging-in-Publication Data**

ISBN: 0-8031-3468-1

ISSN: 1040-1695

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Printed in Saline, MI

Aug. 2003

## Foreword

The Symposium on Pesticide Formulations and Application Systems: Surviving the Change in the Agrochemical Industry was held in Norfolk, Virginia on 15–16 Oct. 2002. The Symposium was sponsored by ASTM Committee E35 on Pesticides and Alternative Control Agents. The chairman was Gregory Volgas. He also served as editor for this publication, together with R. A. Downer and H. B. Lopez.

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# Overview

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This book represents the work that was presented at the 23<sup>rd</sup> Symposium on Pesticide Formulations and Application Systems, Oct. 15–16, 2002 in Norfolk, VA. The ASTM E35.22 Subcommittee sponsors this symposium annually in an attempt to deliver pertinent and updated information to agrochemical formulators. The work of several authors from private industry, government, and academia is well represented here in an overview of recent pesticide technology.

Increased pressure on growers to reduce costs has posed new challenges for agrochemical formulators and delivery system manufacturers. The loss of patent protection for many pesticides has created new opportunities for agricultural chemical manufacturers to offer value to customers. Spray adjuvant and inert producers must be more creative in the products they offer. Biotechnology and consolidation are putting pressure on all sectors of the industry. All of these changes have forced formulators to better focus their efforts to offer economic benefits to the end users of their products. The symposium featured invited speakers who provided the audience with a broad view of where the industry may be headed.

The papers presented in this book represent several themes that have been consistent through several years of the symposia.

*Formulation Ingredients*—The purpose of this session was to showcase new adjuvant formulations and new inert chemistries. Inert suppliers and researchers presented papers introducing novel formulation tools as well as innovative uses for old inert chemistries.

*Formulation of pesticides for enhanced biological efficacy*—With the large number of pesticide actives coming off-patent in recent years, formulators are finding new techniques for adding value and improving performance of products. Other new or existing pesticides were formulated to provide enhanced performance.

*Application and delivery systems*—New, more precise delivery techniques are being investigated as a tool to reduce input costs for growers. This session featured both equipment and additive technologies intended to reduce off-target spray drift and enhance deposition of applied sprays.

*Regulatory and environmental concerns*—Regulatory and environmental issues will continue to pose new challenges for the industry. These issues were discussed with particular attention to agrochemical and adjuvant formulation.

G. C. Volgas

ISBN # 0-1034-2493-1  
Pack #: S11144

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