

# ***Aquatic Toxicology and Hazard Assessment***

*Seventh Symposium*

***Cardwell/Purdy/Bahner***  
*editors*

**ASTM STP 854**

# AQUATIC TOXICOLOGY AND HAZARD ASSESSMENT: SEVENTH SYMPOSIUM

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sponsored by  
ASTM Committee E-47  
on Biological Effects and  
Environmental Fate  
Milwaukee, Wisc., 17-19 April 1983

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Rick D. Cardwell, Envirosphere Company,  
Rich Purdy, 3M Company, and Rita Comotto  
Bahner, Association of Official Analytical  
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## Foreword

The papers in this publication, *Aquatic Toxicology and Hazard Assessment: Seventh Symposium*, are taken from the seventh in a series of annual symposia on Aquatic Toxicology sponsored by ASTM. This seventh symposium, held 17–19 April 1983 in Milwaukee, Wisconsin, was, like its immediate predecessor, sponsored by ASTM Committee E-47 on Biological Effects and Environmental Fate. The first five symposia in this series were sponsored by ASTM Committee E-35 on Pesticides.

Chairing this symposium were Rick D. Cardwell, Envirosphere Company, Rich Purdy, 3M Company, and Rita Comotto Bahner, Association of Official Analytical Chemists, all of whom also served as editors of this publication.

## Related ASTM Publications

Aquatic Toxicology and Hazard Assessment (Sixth Symposium), STP 802 (1983), 04-802000-16

Aquatic Toxicology and Hazard Assessment (Fifth Symposium), STP 766 (1982), 04-766000-16

Aquatic Toxicology and Hazard Assessment (Fourth Symposium), STP 737 (1981), 04-737000-16

Aquatic Toxicology (Third Symposium), STP 707 (1980), 04-707000-16

Aquatic Toxicology (Second Symposium), STP 667 (1979), 04-667000-16

Aquatic Toxicology and Hazard Evaluation (First Symposium), STP 634 (1977), 04-634000-16

Ecological Assessments of Effluent Impacts on Communities of Indigenous Aquatic Organisms, STP 730 (1981), 04-730000-16

Analysis of Waters Associated with Alternative Fuel Production, STP 720 (1981), 04-720000-16

Aquatic Invertebrate Bioassays, STP 715 (1980), 04-715000-16

## A Note of Appreciation to Reviewers

The quality of the papers that appear in this publication reflects not only the obvious efforts of the authors but also the unheralded, though essential, work of the reviewers. On behalf of ASTM we acknowledge with appreciation their dedication to high professional standards and their sacrifice of time and effort.

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