



Project Summary

Developments at Thirteenth International Conference on Water Pollution Research

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This report provides a mechanism whereby current water research developments from around the world, as reported at the 13th International Conference on Water Pollution Research of the International Association on Water Pollution Research and Control, can be highlighted and brought to the attention of other water pollution researchers. In the report are reviews of the conference presentations and invited discussion, poster sessions, and pre- and post-conference seminars, as well as interpretive analyses of informal developments associated with the Conference that were judged to be of particular relevance to water quality control activities in the U.S.A. Also included is a section on research needs.

This Project Summary was developed by EPA's Water Engineering Research Laboratory, Cincinnati, Ohio, to announce key findings of the research project that is fully documented in a separate report of the same title (see Project Report ordering information at back).

Introduction

The International Association on Water Pollution Research and Control (IAWPRC) has sponsored biennial conferences since the first was held in London in 1962. These conferences provide a forum where international researchers and practitioners can meet, present technical papers, discuss these presentations, and debate cutting-edge technical issues concerning water quality. Such conferences are an excellent opportunity for the U.S. Environmental Protection Agency (EPA) to learn

of the latest developments in the international arena and to identify research needs.

The 13th International Conference on Water Pollution Research was held in Rio de Janeiro, Brazil, on August 17-21, 1986. This report summarizes the formal and informal developments that evolved during this conference and the pre- and post-conference seminars. The document was prepared for the EPA by the United States of America National Committee (USANC) for Representation of the United States to IAWPRC.

Rather than include complete conference papers with formal and informal floor discussion, many of which are published in *Water Science & Technology*, the full report includes summary presentations as prepared by official U.S.A. participants in the conference. Specific emphasis was placed on scientific and technical developments of special interest to U.S.A. researchers and practitioners, as well as research needs identified in or associated with conference presentations. Basic themes for this conference included ground water pollution, surface water quality problems, river basin management, wastewater treatment and disposal, sludge treatment and disposal, marine disposal of wastewaters, and health aspects of water microbiology and virology.

Scientific and Technical Developments

Technical areas included in the report are as follows:

- Stabilization Ponds and Natural Systems

- Land Application of Wastewaters
- Aerobic Biological Treatment and Biofilms
- Anaerobic Biological Treatment
- Biological Nutrient Removal
- Water Microbiology and Virology
- Physicochemical Treatment
- Water Quality
- Marine Disposal
- General Topics

Research Needs Identified

A total of 66 research needs were identified by USANC as a result of attendance at the Conference and associated seminars — 38 dealt with biological treatment systems, 14 with water microbiology and virology, 7 with physicochemical treatment, and 7 with other topics.

The full report was submitted in fulfillment of Cooperative Agreement CR812729-01-0 by the United States of America National Committee for Representation of the United States to the International Association on Water Pollution Research and Control under the sponsorship of the U.S. Environmental Protection Agency.

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The complete report, entitled "Developments at Thirteenth International Conference on Water Pollution Research, Rio de Janeiro, Brazil, August 17-21, 1986," (Order No. PB 88-102 512/AS; Cost: \$30.95, subject to change) will be available only from:

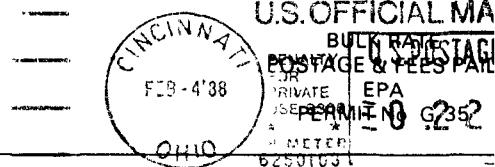
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