



# Project Summary

## Proceedings: 1991 International Conference on Municipal Waste Combustion

Theodore G. Brna

**The three volumes document 82 presentations by authors from 15 countries at the Second International Conference on Municipal Solid Waste Combustion (MWC) in Tampa, Florida, April 16-19, 1991. The Conference fostered the exchange of current information on research concerning MWC, ash disposal and treatment, and flue gas cleaning as well as unit operating experience, regulatory developments, and plant siting considerations. Topics discussed included overviews on MWC from Canada, Europe, and the U.S.; MWC processes; dry/wet flue gas cleaning developments and operating experience; ash characterization, treatment, utilization, and disposal; chlorinated dioxin/furan control; environmental compliance; health risk; quality control/assurance; municipal waste management; mercury emission control; sampling and analysis; economic and social issues; and regulatory effects.**

***This Project Summary was developed by EPA's Air and Energy Engineering Research Laboratory, Research Triangle Park, NC, 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).***

### Overview

The Second International Conference on Municipal Waste Combustion (MWC) was held in Tampa, Florida, April 16-19, 1991, under the sponsorship of the U.S. Environmental Protection Agency and the Air and Waste Management Association and with the participation of the American Society of Mechanical Engineers and En-

vironment Canada. The Conference fostered the exchange of current information on research concerning MWC, ash disposal and treatment, and flue gas cleaning as well as unit operating experience, regulatory developments, and plant siting considerations. Topics discussed included overviews on MWC from Canada, Europe, and the U.S.; MWC processes; dry/wet flue gas cleaning developments and operating experience; ash characterization, treatment, utilization, and disposal; chlorinated dioxin/furan control; environmental compliance; health risk; quality control/assurance; municipal waste management; mercury emission control; sampling and analysis; economic and social issues; and regulatory effects.

Authors from 15 countries contributed to the 82 presentations made during three parallel sessions. The opening plenary session included the keynote address and was followed by overviews from the Canadian, European, and U.S. perspectives. While not reported, panelists discussed U.S. environmental compliance requirements and their impact on MWC plant operation in one plenary session and the international outlook for environmental regulation in the concluding plenary session.

The proceedings are compiled in three volumes, with papers on combustion, ash, and flue gas cleaning grouped separately in different volumes. To complete each volume, papers on closely related topics have been included where possible subject to limiting each volume to approximately the same number of papers. The contents of each volume are referred to the conference sessions as listed below.



Volume 1 contains papers from:

- Session P: Opening Plenary Session
- Session O: International Overviews
- Session 1A: Combustion I
- Session 2A: Combustion II
- Session 3A: Combustion III
- Session 4A: Fuel Cleaning
- Sessions 6A/6B: Environmental Effects/Risk and Quality Assurance/Quality Control
- Session 9C: MSW Characteristics and Downstream Effects
- Session 10B: Regulatory Effects

Volume 2 contains papers presented in:

- Session 1B: Ash Characterization
- Session 2B: Ash Treatment/Utilization I
- Session 3B: Ash Disposal I
- Session 4B: Ash Disposal II
- Sessions 7A/7B: Municipal Waste Management I/Ash Treatment/Utilization II
- Sessions 8A/8B: Municipal Waste Management II/Ash Leaching
- Session 9B: Economic and Social Issues

Volume 3 contains papers presented in:

- Session 1C: Recent Flue Gas Cleaning Experience I

- Session 2C: Recent Flue Gas Cleaning Experience II
- Session 3C: Wet and Dry Flue Gas Cleaning Experience
- Session 4C: Flue Gas Cleaning: PCDD/PCDF Control
- Session 6C: Novel/Emerging Flue Gas Cleaning Technology I
- Session 7C: Mercury Control
- Session 8C: Novel/Emerging Flue Gas Cleaning Technology II
- Session 9A: Sampling and Analysis I
- Sessions 10A/10C: Sampling and Analysis II/Flue Gas Cleaning System Performance

**Theodore G. Brna** is the EPA Project Officer (see below).

The complete report consists of three volumes entitled "Proceedings: 1991 International Conference on Municipal Waste Combustion:"

"Volume 1. Sessions P, O, 1A, 2A, 3A, 4A, 6A, 6B, 9C, and 10B" (Order No. PB93-124170/AS; Cost \$50.00, subject to change)

"Volume 2. Sessions 1B, 2B, 3B, 4B, 7A/B, 8A/B, and 9B" (Order No. PB93-124188/AS; Cost \$50.00, subject to change)

Volume 3. Sessions 1C, 2C, 3C, 4C, 6C, 7C, 8C, 9A, and 10A/C" (Order No. PB93-124191/AS, Cost \$50.00, subject to change)

All volumes of this report will be available only from:

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