TECHNICAL PROCEEDINGS

SEVENTH ANNUAL CONFERENCE
of the
NATIONAL WATER SUPPLY IMPROVEMENT ASSOCIATION

SEPTEMBER 16-20 1979
NEW ORLEANS, LA
TABLE OF CONTENTS

SESSION I

DOMESTIC WATER SUPPLY SYSTEMS

Chairman – William Katz, Vice President
Ionics, Inc., Watertown, Massachusetts

<table>
<thead>
<tr>
<th>PAPER</th>
<th>AUTHOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Years of ED Experience on a Barrier Island, or &quot;1.5 Billion Gallons Later&quot;</td>
<td>Ian C. Watson, P. E., and Richard Derowitsch, Island Water Association, Inc., Sanibel, Florida</td>
</tr>
<tr>
<td>Twenty Years Operation at Junius Ponds, New York – ED/EDR System Comparison</td>
<td>Irwin P. Sander, New York State Thruway Authority, New York</td>
</tr>
</tbody>
</table>

SESSION II

INTERNATIONAL WATER SUPPLY SYSTEMS


<table>
<thead>
<tr>
<th>PAPER</th>
<th>AUTHOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeddah Seawater Reverse Osmosis Installation</td>
<td>Issam Jamjoom, Saline Water Conversion Corporation, Saudi Arabia, Carl E. Hickman, Alan B. Riedinger, and Ralph E. Seaton, UOP, Inc., San Diego, California</td>
</tr>
<tr>
<td>Oil Field Applications for Water Desalting</td>
<td>Gordon F. Leitner, Water Services of America, Inc.</td>
</tr>
<tr>
<td>*800,000 GPD Seawater RO Installation in Venezuela</td>
<td>Dr. Juan C. Milone, CADFE, Caracas, Venezuela</td>
</tr>
</tbody>
</table>

* – Not submitted for publication at the time of this printing.
SESSION III
WATER REUSE SYSTEMS

Chairman - Richard D. Heaton, AWWA Research Foundation, Denver, Colorado

PAPER

Guidelines for Implementing Water Reuse in Communities

Legal, Institutional, and Political Obstacles to Water Reuse

*OWRT Reuse R&D Program

Dual Water Supply Systems Modeling

**Reuse of Water in Space

AUTHOR

Richard L. Woodward and John F. Donovan, Camp Dresser & McKee Inc., Boston, Massachusetts

Kurt Wehbring, David M. Dornbusch & Company, Inc., Portland, Oregon

Robert M. Madancy, OWRT, USDI, Washington, D.C.

Arun K. Deb, Weston Designers-Consultants, West Chester, Pennsylvania

Richard Sauer, NASA, Houston, Texas

SESSION IV
PANEL DISCUSSIONS

* - Not submitted for publication at the time of this printing.

** - Abstract only.
SESSION V

RESEARCH AND DEVELOPMENT PROGRESS REPORTS

Chairman - David Furukawa, Boyle Engineering, San Diego, California

PAPER

Colloidal Fouling of Reverse Osmosis Membranes

Proposed Computer Control System for the Yuma Desalting Plant

*Post Treatment Systems - Selection and Optimization

New Developments in Brackish Water Desalting by Electrodialysis

Sterilization of the Feed and Product Water of Membrane Desalting Systems

Desalting Seawater and Brackish Waters: Cost Update, 1979*

AUTHOR

Michael T. Brunelle, L.A. Water Treatment, City of Industry, California

E. I. Ewoldsen, U.S. Bureau of Reclamation, Denver, Colorado

Dennis R. Kasper, PRC Toups Corp., Orange, California


James E. Cruver and Makhan Jhawar, Ultraviolet Technology, Inc., San Diego, California


* - Not submitted for publication at the time of this printing.
SESSION VI

FUTURE WATER SYSTEM REQUIREMENTS

Chairman - Robert Bakish, Professor, Fairleigh Dickinson University, Teaneck, New Jersey

PAPER

*Water Quality in Florida

Long Term Planning for Water Supplies in Saudi Arabia

Review of OWRT Activities

Potential for Reusing Agricultural Drainage Waters in Saudi Arabia

Future Water Planning in Libya

Current Status of U.S. Israeli Desalting Program

AUTHOR

Glenn Dykes, Florida Water Department, Tallahassee, Florida


Michael F. Thuss, U.S. Army Corps of Engineers, Tucson, Arizona


A.M. Al Taweel, Nova Scotia Technical College; A. Bushnak and W. Bawarith, Saudi Arabia

Dr. M. M. Aswed, Tripoli, Libya


* - Not submitted for publication at the time of this printing.