CONTENTS

| Introduction | |
|--|-----|
| Water in Europe | 3 |
| Disinfection by-Products – A view from North America | 9 |
| DBP Formation and occurrence in Treatment and Distribution | |
| Disinfection by-product formation : Dutch Approach of Control Strategies | 23 |
| The Impact of Natural Organic Matter (NOM) on the Formation of Inorganic Disinfection | 23 |
| by-Products : Chlorite, Chlorate, Bromate and Iodate | 31 |
| Identification of Drinking Water Disinfection by-Products from Ozone, Chlorine Dioxide, | 51 |
| Chloramine, and Chlorine | 46 |
| The Influence of UV Disinfection on the Formation of Disinfection by-Products | |
| Impact of Pre-ozonation and Slow Sand Filtration on Disinfection by-Products | 62 |
| The Effect of Nanofiltration on the Trihalomethane Formation Potential of Coloured Upland | 02 |
| Waters | 70 |
| Chloramination : The Background to its Introduction, and the Management of Nitrite Formation | 70 |
| in a Water Distribution System | 78 |
| | 10 |
| Advances in Analysis and Monitoring | |
| Trace-level Determination of Bromate in Drinking Water by IC/ICP-MS | 91 |
| Field and Laboratory Methods for Bromate Determination in Drinking Water | 98 |
| On-Line Monitoring of the River Trent-to Reduce the Level of THM Formation | 108 |
| | |
| Standards and Regulation | |
| DBP Standards and Regulation : The North American Situation | 121 |
| DBP Standards and Regulation : The UK and European Situation | 131 |
| Meeting Strict DBP Standards - the View of the European Water Industry | 140 |
| North West Water's Options for compliance with the Proposed Revision of the European Drinking | |
| Water Directive Standard of DBPs | 146 |
| | |
| Balancing Chemical and Microbiological Risk | |
| The Risks of DBPs in Perspective | 157 |
| Bromate Carcinogenicity : A Non-Linear Dose Response Mechanism? | 165 |
| Developments in Microbiological Risk Assessment : From Cryptosporidium to BSE | 170 |
| Central of DDDs | |
| Control of DBPs The Lies of Advanced Water Treatment Processes for the Peduation of Peakersund Organics and | |
| The Use of Advanced Water Treatment Processes for the Reduction of Background Organics and | 102 |
| Disinfection by-Products Treatment Strategies for Disinfection-related Trihalomethane Formation : Impact of colour in | 183 |
| Public Water Supplies to Klaipeda, Lithuania | 191 |
| Applying Published Bromate Formation Data to Ozone Contactor Design | 191 |
| Production of Drinking Water without Chlorine : The Dutch Experience | 208 |
| riouedon of Dimking wheel without emotine. The Duch Experience | 200 |
| Concluding Remarks | |
| Summary of Conference, Disinfection Products – the Way Forward | 219 |
| Subject Index | 222 |