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Nota di contenuto	Cover; Copyright; Contents; Preface; Conference programme advisory panel; Part I: General Overview; Chapter 1: Slow Sand Filtration: Recent Research and Application Perspectives; Chapter 2: A Review of Biologically-Based Drinking Water Treatment Processes for Organic Micropollutant Removal; Chapter 3: Overview on the current condition of slow sand filtration and its challenges in Japan; Chapter 4: The Centenary Slow Sand Filtration in Nagoya City - A 100 Year Trend of Water Quality; Chapter 5: The centenary slow sand filtration in Nagoya City - the reconstruction of the slow sand filters Chapter 6: Value of Adenosine Tri-Phosphate and Total Cell Count for the assessment of general microbial water quality after sand filtration Chapter 7: Evaluation of dissolved organic matter fractions removal due to biodegradation; Chapter 8: Comparison between different filter systems as a post treatment after tertiary ozonation; Part II: Slow Sand Filtration - Process Behaviour; Chapter 9: Food chain is the key in ecological purification system: new concept and new name of slow sand filter Chapter 10: A study of protistan movement speed and filtration rate in slow sand filter as an ecological purification system Chapter 11:

Analysis of bacterial community structures in slow sand filtration bed on different region and soil depth by PCR-DGGE method; Chapter 12: Gut bacterial floras of aquatic invertebrates inhabiting slow sand filter beds; Chapter 13: The functioning of biological slow sand filtration in relation to the presence and the role of Annelids in the schmutzdecke; Chapter 14: The inhibitory effect of Tubificid on head loss in slow sand filtration

Chapter 15: Schmutzdecke development and treated water

qualityChapter 16: The silicon circulation hypothesis based on slow

sand filtration/ecological purification system; Chapter 17: Effect of

sudden changes of slow sand filtration rate on number of bacteria and

particles in effluent; Part III: Slow Sand Filtration - Treatment

Performance; Chapter 18: Slow sand filtration process model for

removal of microorganisms; Chapter 19: Removal of anti-inflammatory

compounds by ecological filtration; Chapter 20: Removal of

bromophenols by slow sand filtration

Chapter 21: The iron and manganese removal process: Its microbial

habitats and functionsChapter 22: Biological iron removal from

community water source - Corriverton, Republic of Guyana; Chapter

23: Case studies of slow sand filtration/ecological purification system

in small scale water supply; Chapter 24: Water supply of a small

community with a small slow sand filtration/ecological purification

system unit; Chapter 25: Refocus on slow sand filter in Kakuda city and

Marumori town after Great East Japan Earthquake; Chapter 26: Small

slow sand filter system for rural area in Bolivia

Part IV: Slow Sand Filtration - Process Developments
