Contents

357 Membrane-media active collaboration (M-MAC): an alternative for solid-liquid separation in drinking water treatment

365 New water supply technology and development of water utility management in Japan
Yasumoto Magara, Yoshihiko Matsui and Koichi Ohno

375 Particle removal with membranes in water treatment in Germany – state of the art and further developments
Stefan Panglisch, Andreas Loi-Brügger and Rolf Gimbel

385 Research and development on water supply technologies in JWRC
Masahiro Fujiwara

393 Inactivation of particle-associated viruses by UV
J. Y. Hu, X. N. Chu, P. H. Quek, Y. Y. Feng and X. L. Tan

399 Developments of high rate dissolved air flotation for drinking water treatment
James K. Edzwald

411 Adsorptive removal of geosmin by ceramic membrane filtration with super-powdered activated carbon
Yoshihiko Matsui, Takako Aizawa, Fumiaki Kanda, Naoko Nigorikawa, Satoru Mima and Yuji Kawase

419 30 Years of technical and organisational development in the UK water sector: Thames Water’s experiences of moving from public to private sector
Tony Rachwal

425 Influence of calcium on the evolution of irreversible fouling in microfiltration/ultrafiltration membranes
Hiroshi Yamamura, Kenji Okimoto, Katsuki Kimura and Yoshimasa Watanabe

435 Modelling of the release of organic compounds from polyethylene pipes to water
Martin Denberg, Erik Arvin and Ole Hassager

445 Bacterial species and variation in the biofilm of water distribution system in Harbin city
Yu Shui-li, Yu Xin-jing, Shi Wen-xin, Wang Dongguang and Qiu Xiao-xia

453 Pipeline management in Tokyo - measures for leakage prevention
Kazuhiko Fujimura

463 Evaluation of water supply project by performance indicators
K. Ishii and T. Katsumata