BIOREFINERY 7
Near-neutral pre-extraction of hemicelluloses and subsequent kraft pulping of southern mixed hardwoods
Sung-Hoon Yoon, Mehmet Sefik Tunc, and Adriaan Van Heiningen

PROCESS CHEMISTRY 17
Identification of acid-insoluble filter-plugging compounds and optimal acid-washing procedures for tubular backpulse pressure filters
Kevin Taylor, Rich Adderly, and Gavin Baxter

BLEACHING 25
Cost-effective brightening of thermomechanical pulp from mountain pine beetle-infested lodgepole pine
Thomas Q. Hu, Carmen Margetts, Krista Morrow, Michelle Zhao, Surjit Johal, and Bernard Yuen

CHEMICAL RECOVERY 33
Influence of chlorine and potassium on operation and design of chemical recovery equipment
Marcelo Hamaguchi and Esa K. Vakkilainen

RECYCLED FIBER 41
Use of a sol-gel processed polyvinyl alcohol/inorganic silica hybrid material to improve the surface strength of recycled fiber sheets
Yi-Ding Shen, Yan-Na Zhao, and Xiao-Rui Li