JAPAN TAPPI JOURNAL

CONTENTS

Vol. 73, No. 4

Welcoming New Emploees

- 1 Development of Black Liquor Viscosity Control ChemicalKaori Fujitsuki and Akira Yamakawa
- 5 Retention Control Key Tool in Improving Papermaking EfficiencyTimo Rantala, Lasse Kauppinen, Jukka Nokelainen and Kenichi Ishihara
- 12 New Proposal for Improvement of Fixability of Internal Agent by "AXISZ System"......Yohei Miyoshi, Koichi Tadaki, Kazutaka Kasuga and Miho Kato
- 18 Separation of Wood Constituents by Soda-AQ Cooking for ChemicalsShiho Tsuji
- 23 Why It is Important to Measure Charge in The Paper Making Process

 —A Presentation of State of The Art for Laboratory and Online Charge Measurement—

 Daniel Ohndorf and Hiroyuki Miyaoka
- 28 Solution for Existing Wastewater Treatment Akira Imaizumi
- 32 High Brightness Mechanical Pulp from Eucalyptus Planted TreesTakanori Miyanishi

Topics & Information

- Report on the Results of the Fiscal 2018 Follow-up Survey on "JPA's Committed Action Plan for a Low carbon Society" and Related Information on Measures against Global Warming in the Japanese Paper Industry......Yasuharu Sakina
- 56 The History of Paperboard Part 3: Paperboard Production in Japan······Kiyoaki Iida

Introduction of Research Laboratories (128)

64 Area of Polymeric Materials Chemistry, Department of Applied Chemistry, Graduate School of Engineering, Osaka University

Research Report (Original Paper)

Analysis of Gloss Constancy in Light Source Size ChangeShinichi Inoue, Masanori Maki, Shoji Yamamoto and Norimichi Tsumura

Pulp and Paper Mills in Japan (77)

- 83 Kawanoe Mill, Marusumi Paper Co., Ltd.
- 03 Committee report
- 66 Essay on Intellectual Property
- 67 Coffee break
- 88 Papyrus
- 92 Industry News (Domestic and International)
- 96 List of Patents issued and Laid-open Publication
- 104 Price list of Domestic Logs and Wood Chips by District
- 105 Other Monthly Statistics
- 107 News from the Association