CONTENTS

VOLUME 1

KEY NOTE ADDRESS
Chine's Pulp & Paper Industry in Century-Span Transition
Huang Runbin 3

The Pulp & Paper Industry in Shandong: Fast, Persistent & Healthy Growth
Zhang Jin-Sheng 11

Experience in the Technical & Market Development of Agri-Pulp Printing Paper in North America
Alfred Wong 23

Formic Acid Based Pulping Technology- Efficient, Economical and Environmentally Friendly
Rousu Paivi Rousu Paivi Kuokkanen Teemu 33

Marching Onwards into the 21st Century-A Prospective View of the Chinese Pulp & Paper Industry
Zhong Xiang-ju 43

Oxidative Ammonolysis of Technical Lignins-Mechanism and Kinectice
Ewellyn A. Capanema Mikhail Yu. Balakshin Chen-Loung Chen J S Gratzl Adrianna G. Kirman 52

Fiber Resources for the Pulp & Paper Industry in the 21st Century
Xie Lai-Su Long Yuan-Quan 58

The Unique Features of Non-wood in Alkaline Delignification
Huamin Zhai Yuan-zong Lai 65

PULPING
The Contribution to the Kappa Number from Hexeneuronic Acid Groups in Xylan of Wheat Straw Kraft Pulp
Bingyun Li Zeng Zhang Ganqiang Huang Jiakui Liu 73

Comparison of Pulpability between Reed and Amur Silver Grass
Hu Hui-ren Shi Shulan Feng Weny ing 79

Surface Chemical Composition of Some Non-wood Pulps
Y.Yu K. Koljonen H. Paulapuro 88

IDE-Pulping of Common Reed
Christoffer Westin Bruno Lonnberg Tom Hultholm 96
The Application of Bio-Pretreatment to the Pulping of Ma Bamboo
Hweig Wang  Shung-chung Shuang

Non-sulfur Semi-chemical Pulping of Red Oak and Wheat Straw Mixture
Jan Pekarovic  Alexandra Pekarovicova  Thomas W. Joyce

The Pulping, Bleaching and Papermaking Characteristics of Reed, Compared to Mixed Southern Hardwoods
Medwick V. Byrd Jr.

Achieving Cleaner Production in Integrated Non Wood and Secondary Fiber Based Mills
Jay T. Jeyasingam

Nonwood Fibres Made by Formic Acid Based Pulping Method –Holistic Characterization of Paper Properties
Paivi Rousu  Pasi Rousu  Veikko J. Pohjola

Optimization of Process Parameters for the Refiner Mechanical Pulping of Bark
Dibyendu N. Roy  Krishan Goel

Two-Stage Alkali-oxygen (AO) Pulping of Bagasse
Zenat A. Nagieb  Essam S. A. El-Sayed

Auto-catalyzed Ethanol-water Pulping of Chinese Alpine Rush
Zhang Mei-yun & Li Cui-zhen

Displacement Cooking of Wheat Straw
Wen Qiong-ju  Yang Chen  Nie Xun-zai  Nie Qing

Pulp Production from Banana Plant Stem, Musa sp.
Soffner, M.L.A.P.  Silva Jr, F.G.

The Modern Fiberline Technology for Non-wood Pulping
Rolf Boman  Yngve Lundahl  C.G. Kiang

A Study on the Degradation of a Kind of New Cellulose-base Complex Material
Ou Yifang  Huang Qiulian  Chen Jianan

Lignin Removal Process-An Emerging Eco-Friendly Technology for Non-wood Based Pulp and Paper Mills
R. K. Jain  Abhaa Gupta  R.M. Mathur  A.G. Kulkarni
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation of High Quality Bagasse Pulp by Using the ASAM Process</td>
<td>217</td>
</tr>
<tr>
<td>Nadia Shukry Samira F. El-Kalyoubi El-Barbay M. Hassan</td>
<td></td>
</tr>
<tr>
<td>APMP Pulps of Nonwood Fibre: Part 1 Kenaf and Straw</td>
<td>226</td>
</tr>
<tr>
<td>Eric C. Xu</td>
<td></td>
</tr>
<tr>
<td>The Response of Kenaf Woody Core to Chemi-mechanical Treatments</td>
<td>232</td>
</tr>
<tr>
<td>1. The Effect of Water and Alkali Soaking on Fiber Swelling and Yield</td>
<td></td>
</tr>
<tr>
<td>Medwick V. Byrd, Jr.</td>
<td></td>
</tr>
<tr>
<td>Alkaline Pulping of Kenaf Bark Fibre from Crops Grown in Australia and China</td>
<td>243</td>
</tr>
<tr>
<td>Alfred Wong</td>
<td></td>
</tr>
<tr>
<td>Liquefaction of Wheat Straw Soda Lignin in Organic Solvent</td>
<td>253</td>
</tr>
<tr>
<td>Chen Fangeng Miao Jianjun Lu Zhuomin</td>
<td></td>
</tr>
<tr>
<td>Fractionation and Complete Utilization of Wheat Straw by Atmospheric Acetic Acid Process</td>
<td>260</td>
</tr>
<tr>
<td>Xue-Jun Pan</td>
<td></td>
</tr>
<tr>
<td><strong>BLEACHING</strong></td>
<td></td>
</tr>
<tr>
<td>Hydrogen Peroxide Bleaching of Agro-based Fibres-Bleachability and Improvement</td>
<td>268</td>
</tr>
<tr>
<td>George X. Pan Gordon J. Leary</td>
<td></td>
</tr>
<tr>
<td>High-temperature Pressurized Hydrogen Peroxide Bleaching Process for Reed Kraft Pulp</td>
<td>276</td>
</tr>
<tr>
<td>Long zhu Chen Yunzhi Xie Laisu</td>
<td></td>
</tr>
<tr>
<td>Effect of Lignin Structure on Bleaching Performance and Brightness of Wheat Straw CMP</td>
<td>282</td>
</tr>
<tr>
<td>Ma yongwen Chen zhonghao Wang zonghe</td>
<td></td>
</tr>
<tr>
<td>Improved Bleaching of Straw Pulp</td>
<td>289</td>
</tr>
<tr>
<td>Gerd Wane Tobias Bruhn Christian Blom Zhang Hua</td>
<td></td>
</tr>
<tr>
<td>Bleaching of Wheat Straw Soda-AQ Pulp including A Permanganate Delignification Stage</td>
<td>303</td>
</tr>
<tr>
<td>Li Zongquan Fu Yinguan Shao Zhiyong Qin Menghua</td>
<td></td>
</tr>
<tr>
<td>Preliminary Study on the Laccase/Mediator System Biobleaching of Bagasse Kraft Pulp</td>
<td>309</td>
</tr>
<tr>
<td>Yu Li Zhan Huayu Fu Shiyu Niu Tao</td>
<td></td>
</tr>
<tr>
<td>Biodegradation of Residual Lignin from Reed Kraft Pulp by Panus conchatus,</td>
<td>318</td>
</tr>
<tr>
<td>Fu Shiyu Li Guangri Li Jing Yu Huisheng Zhan Huiyu</td>
<td></td>
</tr>
</tbody>
</table>
ENVIRONMENTAL

Ultrafiltration of Wheat Straw Black Liquor
Chengxia Ren  Yongcan Jin  Hongying Wu  Zhongzheng Li  
Study on Treatment of Black Liquor from Wheat Straw Soda-AQ Pulping Process by Photosynthetic Bacterium
Chen Yu  Xie Laisu  
Determination of Molecular Weight Distribution of Electro-Oxidative Degradation Products of Lignosulfonate by Gel Permeation Chromatography
Li Jing  Chen Fangeng  
Preparation of Polyurethane Based on Lignin Isolated from Alkali-Oxygen Pulping Wheat Straw Waste Liquor
Ke-Li Chen  Lin Zhang  Shu-Hui Yang  Shu-Cai Li  
Preparation of Refined Calcium Carbonat from Reed KP White Mud
Xiang-zheng Hu  Hu Kai-tang  
Characteristics of Chemical Recovery in Alkaline Wheat Straw Pulping Black Liquor
Ma Jinxia  Lee Zhongzheng  Zhai Huamin  
Properties of Bleak Liquor in Two-Stage Alkali-oxygen Pulping of Wheat Straw
Cao Yun Feng  Yang Yiqin  Zhang Xiaoli  Lee Zhongzheng

VOLUME 2

SECONDARY FIBRE

Bleaching and Decolorizing for Deinked Pulp of Multicolor Office Waste
Hou Yan-zhao  Sun Laihong  He Zhibin  Liu Yufeng  
Investigation of Enzyme-enhanced Deinking of Old Book
Zhang Sufeng  An Yuqin  
From ONP to Newsprint-Mill Experience
Zhang Nian-Feng  
Enzymatic Deinking of Newsprint in Ultrasonic Wave
Yimin Xie  Hong Wu  Yanming Lai  Longwu Li  
Studies on ONP Deinking Technology for Improve Brightness,
Luo Jusheng