

## Get Involved

# Wanted:

## Mills for proof-of-concept test


Shipping damage costs affect every mill. That's why TAPPI's Shipping, Receiving, Warehousing (SRW) Committee, a cross-functional group comprised of representatives from publishers, carriers, mills and printers, is dedicated to exploring new ways to reduce in-transit roll damage.

Following an extensive study of processes and procedures used in the industry for inspecting and reporting of damage, the SRW Committee has partnered with VoIPcare Technology in Cedar Rapids, IA. The team developed and deployed a proof-of-concept model in 2008 with a 90-day test that involved JCPenney, UPM, Quebecor, Quad Graphics and Norfolk Southern. The successful test proved that, technologically, the process *can* be automated on an industry-wide basis for little or no capital investment.

Now, the SRW Committee has asked VoIPcare to take the system design to the next level. At the 2009 TAPPI SRW meeting in Nashville, TN, the VoIPcare team presented a complete, high-level design that would allow for automation and centralization of inspection processes of railcars before loading, loaded cars before shipping, loaded cars at receiving, and inspection of individual damaged rolls. Data from these inspections would be captured in near real time and main-

tained at a central processing location. Carriers would be immediately notified of problems with equipment; carriers and mills would be immediately notified of damage incidents; and all the data collected from these events would form the foundation for a data-rich analysis of the root cause of in-transit damage.

On behalf of the SRW Committee, VoIPcare has been recruiting companies to participate in the next level of evaluation—a second six-month trial, which would create enough significant data to enable the industry to assess the value of a fully deployed system. Participating companies are asked to pay a one-time flat fee, plus a small fee for each railcar processed during the testing period. VoIPcare has nearly completed the detailed design and is ready to start the development process.

Five major Class 1 railroads (led by BNSF and PanAm) have signed letters of commitment to the project, as has original test participant JCPenney. VoIP reports that UPM North America and Norske Skog have also joined the evaluation. There are spots available for approximately 15 more companies to join the group. 

*Those interested in joining the project can read more about the trial at [www.voipcaretechnology.com](http://www.voipcaretechnology.com), or contact Robin Mangold at VoIPcare at +1 319 393-3230.*



## RUNNABILITY

### Modeling of bagginess due to storage of paper rolls with ridges

Modelo de deformação devido ao armazenamento de bobinas de papel com rugas

对采用ridge 储存纸卷盘所形成的膨胀状的建模

By Cecilia Land, Lennart Stolpe, and Luciano Beghello

## PAPERMAKING

### Retention of PCC and GCC fillers on chemical pulp fines surfaces

Retenção de cargas de PCC e GCC em superfícies de finos da polpa química  
化学制浆细小纤维表面上的PCC 和GCC 填充剂的保留

By Henriikki Liimatainen, Antti Haapala, and Jouko Niinimäki

## KRAFT PULPING

### Pre-extraction of hemicelluloses and subsequent kraft pulping, Part II:

#### Acid- and autohydrolysis

Pré-extração de hemicelulose e subsequente polpação de kraft - Parte II: hidrólise ácida e auto-hidrólise

半纤维素的预提取以及后续的硫酸盐制浆, 第二部分: 酸性水解和自动水解

By Waleed Wafa Al-Dajani, Ulrike W. Tschirner and Tryg Jensen

## ENERGY USE

### Decreasing specific energy of thermo-mechanical pulps from reduction of raw materials variability

Diminuição de energia específica de polpas TMP a partir da redução na variabilidade de matérias primas

降低原材料变异性还原中的TMP 浆的比能量

By Ege Dundar, Luc LaPerrière, and Feng Ding

## COMPUTATIONAL SIMULATION

### 3-D computational simulation of paper handsheet structure and prediction of apparent density, Part I

Simulação 3-D em computador da estrutura da folha de mão do papel e prognóstico da densidade aparente, Parte I

三维计算模拟手抄纸结构以及预测表观密度 (第1部分)

By Rémi Vincent, Martine Rueff, and Christian Voillot