

Applied Web Handling Conference 2006

(AWEB 06)

**Charlotte, North Carolina, USA
7 - 10 May 2006**

Volume 1 of 2

ISBN: 978-1-61738-648-0

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2006) by the Association of Industrial Metallizers, Coaters and Laminators
All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Association of Industrial Metallizers, Coaters and Laminators
at the address below.

Association of Industrial Metallizers, Coaters and Laminators
201 Springs Street
Fort Mill, South Carolina 29715

Phone: (803) 802-7820
Fax: (803) 802-7821

aimcal@aimcal.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1:

Roll Design Issues and Their Relationship to Production Cost	1
<i>B. Field</i>	
What is the Best Roller Size for my Machine?	23
<i>D. R. Roisum</i>	
Alignment Methods & Best Practices for Cost Effective Alignment of Production Equipment	50
<i>F. Williams</i>	
Inertial Roll Alignment for Diagnosing and Preventing Web Handling Problems	124
<i>S. Busch, A. Sasikumar, H. Plehn</i>	
Measuring Pressure Variations in Rubber-steel Nips	141
<i>T. J. Walker, S. Huff, V. Carrara</i>	
Application of Embedded Sensors in Roll Covers	170
<i>E. J. Gustafson, D. Bryant</i>	
Motor and Drive Sizing for Converting Center Driven Winders and Unwinders	188
<i>P. H. Werner</i>	
Methods of Diameter Determination for Center Driven Unwinds & Rewinds - Advantages & Disadvantages	206
<i>W. B. Gilbert</i>	
What is the Best Tension for my Product?	258
<i>D. R. Roisum</i>	
Unraveling the Mystery Surrounding Dancer Applications	299
<i>S. Haney</i>	
Equipment and Performance Evaluation: A Real Life Case Study of the Benefits and Savings	318
<i>E. Coletti, A. Ico</i>	
Modular Slitting Machine Technologies	342
<i>L. Fenney, D. Brown</i>	
Web and Roll Performance Characterization at Paprican	368
<i>J. Hamel, F. Parent, L. Maltais</i>	
Core Competencies: The Base for Quality Winding	402
<i>P. Roth</i>	
Challenges in Winding Flexible Packaging Film	450
<i>R. D. Smith</i>	
Unwinding & Winding Control Methods for Center Driven Converting Applications	527
<i>P. H. Werner</i>	
Challenges of High Speed Splicing	553
<i>R. S. Tetro</i>	

VOLUME 2:

Differential Winding Tools and Best Practices	590
<i>S. Craig</i>	
"Effects of Slitting Dynamics on Edge Cut Quality"	643
<i>R. Schable</i>	
Controlling Shear Knife Contact Forces - What is Constant Side Load (CSL) Technology and How Does it Improve the Slitting Process	711
<i>D. Rumson</i>	
An Example of Process Optimisation - Shear Slitting of Polyester Films	732
<i>D. Wager</i>	
Increasing Multi-layered Shear Slitting at Xerox Quality Standards	767
<i>H. Herkenrath, D. Rumson</i>	
Meeting the Customers Requirements Through Mill-wide Slitter Revisions	786
<i>D. Gallou</i>	
Predicting Web Spreading During High Speed Slitting	826
<i>G. T. Gentile, H. Larsson</i>	

Wide Band and Narrow Band Sensors	881
<i>R. Ross</i>	
Web Handling Experts Go On-line	936
<i>D. Jones</i>	
Seeing the Invisible: The Deformations and Stresses that Move Webs	995
<i>J. Brown</i>	
Measurement of Web Curl.....	1044
<i>R. P. Swanson</i>	
The Four Mechanisms of Web Wrinkles	1082
<i>T. Walker</i>	
Author Index	