

## Introduction to Flexography Workshop

Location: Harris A Smith Room 101 and PrintCon

Day	1
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8:30 Program Overview and Introductions

- 9:00 Presentation: Overview of Major Printing Processes Litho, Gravure, Screen, Digital, Letterpress and Flexo: Compare and Contrast
- **10:00 Presentation: Inks, Anilox and Doctor Blades** Ink types and properties, role of the anilox, anilox specifications, and doctor blade configurations
- **11:00** Hands-On: Print Banded Anilox Plate mounting, ink preparation, anilox selection and pressmanship.
- 12:00 Lunch
- **1:00 Presentation: Image Reproduction** File construction, halftone theory, image terminology
- **1:45 Presentation: Density and Tone Value** Learn how density and tone value are measured.
- **2:00** Hands-On: Evaluation of Banded Test Measure effect of LPI and anilox volume on color strength and dot gain.
- 3:15 Break
- **3:30** Demo/Hands-On/Presentation: Technical Prepress for Flexo Prepare 2-color design files for printing.
- **4:00 Demo: RIP and Output** Setup master file for plate output. Discuss RIP parameters.

## Day 2

AM activities will be at 500 Lebanon Rd. We will meet at 7:30am at the Harris building to carpool to the PrintCon building

8:00	<b>Presentation: Intro to Corrugated</b> Corrugated substrates, mounting, and converting
9:00	Hands-On: 2-Color Press Run on Bobst Corrugated Press Setup Set-up procedures, ink preparation, proof review
9:45	Hands-On: 2-Color Press Run on Bobst Corrugated Press Run Color measurement, pH and Viscosity adjustments, on press troubleshooting
11:30	Head back to Sonoco Institute
12:00	Lunch
1:00	<b>Presentation: Flexographic Platemaking</b> Various workflows for making a flexographic printing plate
2:00	Hands ON: 4-Color design and prepress Design, RIP, get plates started.
3:30	<b>Presentation: Color Measurement and Comparison</b> Measuring and defining color with Lab, comparing color with Delta E.
4:00	Hands-On: Color Measurement and Comparison Measure and compare color with a spectrophotometer.
4:45	<b>Presentation: Press Optimization and Characterization</b> Creating optimized print conditions and conducting a press characterization.
5:30	End of Day
Day 3	
10:00	Hands-On: Pressroom Cleaning and Maintenance Proper techniques for plate and anilox cleaning and storage.
8:00	Hands-On: Platemaking and Mounting Finish plates and mount to sleeves.
9:00	Hands-On: 4-Color Process Press Run on OMET Print CMYK job on press, color control for process printing.
<b>1</b> 1 <b>:00</b>	Hands-On: Flexo Print Defects Examine and discuss common print defects.
11:45	Recap and Questions
12:00	End of Workshop