

# **Process Control for Flexo Seminar**

Location: Harris A. Smith Auditorium

# Day 1

- 8:30 Program Overview and Introductions
- **9:00** Review of Flexographic Printing A comprehensive review of the flexographic printing process and the variables in play.
- 10:15 Break

#### 10:30 Colors and Dots

Ultimately flexo printing involves managing halftone dots and color onto a substrate. This session will cover the measurement of color and dot area as tools for process control.

12:00 Lunch

# **1:00** Ink Components of ink formulation, ink measurement and troubleshooting.

# 2:00 Anilox

In order to deliver a precise amount of ink to the plate, an anilox roller in employed. Proper selection and maintenance of this critical component will be reviewed.

- **3:00** Breakout Session: Hands-On Ink Characteristics Ink drawdowns, pH and viscosity measurement.
- **4:00 Breakout Session: Anilox Care and Maintenance** Proper cleaning techniques, testing anilox volume, and effect of volume on color.
- 5:00 End of Day
- 5:30 Group Dinner

# Day 2

# 8:30 Digital Platemaking

Imaging and processing a flexo printing plate is a complex task, this session will break down variables and how to measure them in the plateroom.

#### 9:15 Press Characterization

Understanding how the press characterization plays a role in capturing press capabilities and predicting print outcomes.

#### 9:50 Break

**10:00 Breakout Session: Plateroom Measurements** Stain test, light output, relief measurement and more.

#### **11:00 Breakout Session: Press Characterization** Run characterization to gather color and print information.

#### 12:00 Lunch

#### 1:00 Proofing for Flexography

Predicting results is a critical part of process control. Review options for color proofing hardware and software, the workflow of how to set it up, and how to ensure it remains accurate.

# 1:45 Screening and Curves

Dot shape, bump curves, and compensation curves are all essential for maintaining predictable results.

2:15 Break

# 2:30 Breakout Session: Tone Value and Curves

Hands-on with measuring tone value and generating press curves.

#### 3:45 Breakout Session: Spectrophotometry

Hands-on with spectrophotometers: color, color difference and dot area measurements.

5:00 End of Day

# Day 3

# 8:30 Hands-On Pressroom Challenge

The group will tend to a press run with many issues and use the tools you've learned during this course to problem solve.

# 10:45 Inline Measurement Devices

Inline spectrophotometers and web inspection are making process control faster, learn how this new technology works with a firsthand demonstration.

# 11:00 Break

# 11:15 Q&A and Evaluations

12:00 Adjourn