



SONOCO
INSTITUTE
CLEMSON® UNIVERSITY

Paperboard Packaging Seminar

Location: Harris A. Smith Auditorium

Day 1

8:00 Introductions and Program Overview

8:10 Paperboard Substrates and Applications

An introduction and hands-on comparison of folding carton substrates including SBS, CUK, UKB, CRB, URB, and FBB.

9:30 Break, Group Photo

9:45 Applications Breakout

Hands-on activity

10:15 Paperboard Manufacturing

Board manufacturing including harvesting operations, planting, transportation, and mill operations.

11:00 Stretch Break

11:10 Coating and Finishing

Combined materials including the application and benefits of pigments, binders, and additives to the surface of folding carton surfaces.

12:00 Lunch + Sonoco Institute Tour

1:10 Appearance Characteristics of Paperboard

Descriptions and hands-on application of the most relevant process and product quality control testing including color/shade, gloss, and brightness.

1:50 Surface Characteristics

Process and product control testing including smoothness, slip, receptivity, water vapor, and gluability.

2:30 Stretch Break

2:40 Physical Characteristics

Process and product control testing including basis weight, thickness, tensile, stretch, internal strength, surface strength, burst, stiffness, compression, tear strength, and curl.

4:10 Structural Design

A description of collaborative design including physical, functional, and marketing aspects; steps in design and prototyping; classical box styles, and award winning concepts.

4:50 Summary, Review

5:00 Adjourn

Day 2

8:00 Announcements, Review

8:10 Fiber Certification & Package Labeling

The appropriate use of information placed on boxes including claims, certifications, and seals of approval.

8:40 Design Breakout

Hands-on activity

9:30 Break

9:45 Pre-press

Graphic design, image assembly, color separation, proofing systems, digital screening, and extended gamut.

10:30 Sheeting

Equipment, operations, procedures, and best practices.

11:00 Stretch Break

11:10 Printing Processes

Offset Lithography

12:00 Lunch

12:45 Printing (cont'd.)

Flexography, Gravure, and Digital Print

2:00 Stretch Break

2:10 Post-Press, Die Cutting, Scoring, and Finishing

The equipment, tools, and procedures around cutting, scoring, perforating, folding, and forming folding cartons.

2:50 Folding, Gluing, Assembly, and End Use

An examination of carton folding, gluing, assembly, filling lines, case packing, and palletization.

3:20 Summary, Review

3:30 Adjourn