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 properties including smoothness, slip, receptivity, water vapor and gluability.

2:30  Stretch Break

2:40  **Physical Characteristics**
Process and product control properties 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

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Day 2

8:00 Announcements, Review

8:10 Fiber Certification & Package Labeling
The appropriate use of information placed on cartons 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 Processes (cont’d.)
Flexography, Gravure and Digital Print

2:00 Stretch Break

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

3:30 Adjourn