



**SONOCO**  
**INSTITUTE**  
CLEMSON® UNIVERSITY

## Corrugated Packaging Seminar

Location: Harris A. Smith Auditorium

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### Day 1

8:00 Introductions and Program Overview

**8:10 Industry Overview**

A scope and size description of the North America and Global Container Board and Corrugated Packaging Industries.

**8:25 Container Board Grades**

An introduction to liner board and medium materials common to corrugated packaging.

9:30 Break, Group Photo

**9:45 Container Board Manufacturing**

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

**10:30 Corrugated Board and Applications + breakout**

Combined materials including single face, single wall, double wall, triple wall, flutes, and combinations.

12:00 Lunch + Sonoco Institute Tour

**1:00 Corrugated Board Production**

An introduction to corrugator systems including roll stands, single facer, doublebacker, gluing, slitting, scoring, cutoff, and stacking. Attention is given to adhesives, water, mechanics of the bond, and prominent defects.

2:00 Stretch Break

**2:10 Characteristics of Containerboard and Combined Board**

Descriptions and hands-on application of the most relevant process and product quality control testing for appearance, surface, and physical properties.

3:50 Stretch Break

**4:00 Packaging Performance**

Box performance factors including material selection, design elements, best practices, and environmental effects.

4:50 Summary, Review

5:00 Adjourn

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## Day 2

8:00 Announcements, Review

**8:10 Structural Design + breakout**

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

9:30 Break

**9:45 Package Labeling**

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

**10:10 Pre-press**

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

**10:40 Corrugated Package Printing**

Descriptions and application of flexography for corrugated boxes.

11:00 Stretch Break

**11:10 Printing (cont'd.)**

Offset Lithography, Gravure

12:00 Lunch + ISTA Test Lab Tour

**1:30 Printing (cont'd.)**

Digital Print

**2:30 Die Cutting, Scoring, and Finishing**

The equipment, tools, and techniques used in converting printed, corrugated board into user-ready boxes.

3:20 Summary, Review

3:30 Adjourn