Tentative Schedule. *Subject to Change.*

8:00-8:30
Welcome, Introductions
Learning Objectives

8:30-12:00
<u>Corrugated, Corrugator Overview and Operation</u>
Identify Main Components of a Corrugated Web
Liner Medium, adhesive.

Board Characteristics Liners (two sides)
Medium
Moisture
Why Starch or Adhesive
What Determines Temperatures?
Function of a Single-Wall Corrugator
With Respect to the Bond. Continuous Running.

Pre-Heaters and Wrap Arms
Bonding Factors and Variables for Combined Board.
Managing Raw Resources Paper – Starch
Corrugator Center Lining
Mechanical/Process

Bonding Window Overview
Factors and Variables for Combined Board

12:00-1:00
LUNCH

1:00-5:00
Mechanics of the Bond
Starch, Moisture, Heat, and Pressure

Starch vs. Temperature and Paper
Application Versus Heat
Paper Effect on Bonding

Bonding Terms
Mechanics of the Bond
Application
Wetting/Penetration
Gelatinisation
Green-Bond
Drying/Fully Curing.

Starch Application
Single-Facer
Double-Backer
Rider Roll
Contact Bar
Proper Wiping

Applicator roll Film Thickness
Applicator Cell Pattern
Applicator Roll Speed
Starch Viscosity

Wetting/Penetration
Factors that Impact Penetration
Starch Viscosity
Paper
Starch Temperature

Heat Control & Moisture Management
Heat Transfer Conditions
Uneven Paper Tension Diagonals
Lack of Heat
Lack of Penetration
Reading Board
Corner Peels
Center Rip Bond
Glue Line Analysis

Bridge Temperature Management

Double-Backer Hot-Plate Operation
Combined Board Moisture Content

Course Summary