

## 2009 TAPPI Introduction to Linerboard and Medium Manufacture Course

Kemira North American Headquarters, Kennesaw, GA 30144 USA

### *Tentative Schedule*

#### **WEDNESDAY, AUG. 5**

7:45 a.m.-8:00 a.m.

Welcome and Introductions

8:00 a.m.-8:50 a.m.

Linerboard and Medium  
Properties and Tests

- Mullen
- Ring Crush
- STFI
- Concora
- Runnability
- Others

9:00 a.m.-9:50 a.m.

Fiber Raw Materials and  
Pulp Mill Effects on Paper  
Mill Operations and Product  
Properties

- Fiber properties
- Pulp mill
- Recycling

10:00 a.m.-10:50 a.m.

Stock Prep Refining and  
Effects on Machine  
Operations and Product  
Properties

- Refining mechanism
- Effects on fibers and sheet
- Variables
- Optimizing

11:00 a.m.-11:50 a.m.

Additives and Effects on  
Machine Operations and  
Properties

- pH control
- Alum
- Wet strength
- Sizing
- Clay and other

12:00 p.m.-12:45 p.m.

Lunch on Your Own

1:00 p.m.-1:45 p.m.

Paper Machine Wet End  
Operations I

Approach system  
BW control  
White water  
Cleaning  
Air removal  
Screening

2:00 p.m.-2:45 p.m.

Paper Machine Wet End  
Operations II

- Headbox operations  
Pressure/hydraulic  
Formation  
Microturbulence  
Jet/Wire  
Fiber orientation  
Crossflows  
BW profile control

3:00 p.m.-3:45 p.m.

Paper Machine Wet End  
Operations III

- Sheet forming  
Dewatering  
Formation  
Microturbulence  
Folds  
Sheet structure  
CD, MD, Z  
Variations  
Forming fabrics

4:00 p.m.-4:45 p.m.

Class Exercise

5:00 p.m.-6:00 p.m.

Reception

#### **THURSDAY, AUG. 6**

8:00 a.m.-8:50 a.m.

Review

9:00 a.m.-9:50 a.m.

Paper Machine Operations  
IV

- Top Sheet Forming
- Secondary Headbox
- Top Fourdrinier

- Twin Wire Gap  
Formers
- Hybrid Formers

10:00 a.m.-10:45 a.m.  
Pressing Operations

11:00 a.m.-11:45 a.m.  
Drying I

- Overview
- Zones of drying
- Internal dryer can  
operations
- Air and Condensate
- Felts

12:00 p.m.-12:45 p.m.  
Lunch on Your Own

1:00 p.m.-1:45 p.m.  
Drying II

- Effects of Drying on  
Liner and Medium  
Properties

2:00 p.m.-2:45 p.m.  
Size Press Operations

- Types of Size  
Presses
- Variables affecting  
pick up

3:00 p.m.-3:45 p.m.  
Calendering

- Types of calenders
- Variables affecting  
calendering

4:00 p.m.-4:45 p.m.  
Summary of Mill Wide  
Variations Affecting  
Corrugating

4:45 p.m.-5:00 p.m.  
Class Wrap Up and  
Evaluation