2012 Introduction to Kraft Pulp Manufacture
Pulping, Pulp Processing and Bleaching

August 13-14, 2012
TAPPI Headquarters Training Room, Norcross, GA

COURSE SCHEDULE

MONDAY, AUGUST 13

8:00 – 8:30
- Course Overview and Learning Objectives
- Introductions

8:30 – 9:30
Wood and Fiber Raw Materials
- Hardwoods and Softwoods
- Wood Properties
- Fiber Properties

9:30 – 10:30
Preparation of Wood & Chips for Pulping
- Debarking
- Chipping
- Screening
- Storage and Recovery
- Chip Quality

10:30 – 12:00
Preparation of White Liquor
- Chemical Terminology
- Chemical Tests
- Chemical Recovery Cycle

12:00 - 12:45 LUNCH

12:45 – 1:30
Overview of Kraft Pulping
- Terminology
- Pulp Properties and Tests

1:30 – 2:30
Kraft Digesters and Technology
- Batch
- Continuous

2:30 – 3:30
Kraft Pulping Chemical Reactions
- Delignification
- Cellulose
- Hemicelluloses
- Extractives

3:30 – 4:30
Kraft Pulping Variables and Effects on Properties
- AA, EA
- H Factor
- Pulp Quality for Different Grades

4:30 – 5:15
Trends in Kraft Pulping
- Displacement Cooking
- MCC Cooking
- Lo-Solids
- Isothermal
- AQ
- Polysulfide

5:15 Adjournment

Note: For participants who desire additional depth and/or introductory review, Professor Kocurek will be available until 6:00 PM.

Introduction to Kraft Pulp Manufacture
Pulping, Pulp Processing and Bleaching

COURSE SCHEDULE, CONT.

TUESDAY, AUGUST 14

7:45 – 8:00
Q&A and Discussion of Day One Topics

8:00 – 8:30
Pulp Processing Overview
- Oxygen Delignification
- Fiberizing
- Washing
- Screening & Cleaning

8:30 – 9:30
Brown Stock Washing
- Displacement
- Diffusion
- Equipment
- Washing Variables

9:30 – 10:30
Screening & Cleaning

10:30 – 11:30
Overview of Bleaching
- Sequences
- History
- ECF and TCF

11:30 – 12:00
Chlorine Dioxide Bleaching
- Equipment
- Variables
- Reactions

12:00 - 12:45 LUNCH

12:45 – 1:30
Chlorine Dioxide Bleaching(continued)
- Equipment
- Variables
- Reactions

1:30 – 2:00
Caustic Extraction
- E, EO, EP
- Variables

2:00 – 3:00
Oxygen Delignification
- Equipment
- Variables
- Reactions

3:00 – 3:15
Other Bleaching Sequences
and Trends in Bleaching
- Ozone
- Enzymatic
- Other

3:15 – 3:45
Pulp Mill Environmental Review

3:45 – 4:30
Pulp Mill Biorefinery

4:30 Adjournment

Note: For participants with later departures, Professor Kocurek will be available for further Q&A and discussion.

Workshop Location: TAPPI Training Room
Norcross, Georgia USA

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