



2013 COURSE SCHEDULE

Chair, Marty Hubbe, Professor, NC State University

Tuesday, June 11, 2013

8:00 a.m. – 12:00 p.m.

Introduction to Course
 Learning Objectives Review
 Central Themes of Wet End Chemistry
 Use of Models in Teaching Wet End Chemistry
 Paper Properties and Wet End Chemistry
 Basic Water Chemistry
 Water Chemistry Quiz
 Team Formation
 Water Chemistry Case Study
 Fiber, Fines and Wood Chemistry
 Fillers

12:00 p.m. – 1:00 p.m. **Lunch**

1:00 – 5:00 p.m.

Fibers and Fines Case Study
 Cationic Starch and Dry Strength
 Polymeric Dry Strength Agents
 Basics of Polymer Adsorption
 Dry Strength Case Study
 Wet Strength Additives
 Dry and Wet Strength Quiz
 Questions and Answers

Wednesday, June 12, 2013

8:00 a.m. – 12:00 p.m.

Questions and Answers
 Introduction to Charge and Potential
 Wood Extractives
 Interfering Substances and Contaminants
 Alum Chemistry
 Internal Sizing and Rosin
 Alum and Rosin Sizing Quiz
 Alum and Rosin Sizing Case (Talk Thru)

12:00 p.m. – 1:00 p.m. **Lunch**

Wednesday, June 12, Cont.

1:00 – 5:00 p.m.

Synthetic Sizes
 Synthetic Quiz Size
 Synthetic Size Case Study
 Dyes and Whiteners
 Dyes and Fillers Quiz
 Dyes and Fillers Case Study
 Overview of Retention of the Fine Solids
 Questions and Answers

Thursday, June 13, 2013

8:00 a.m. – 12:00 p.m.

Questions and Answers
 Polymeric Retention Aid Systems
 Microparticle Retention Systems
 Retention Aid Quiz
 Retention Case Study
 Deposit Control
 Deposit Control Case Study
 Questions and Answers

12:00 p.m. – 1:00 p.m. **Lunch**

1:00 p.m. – 3:15 p.m.

Pitch Control
 Deposit and Pitch Control Quiz
 Process Control
 Foam and Entrained Air
 Course Evaluation, CEU Credits, Door Prizes
 Adjournment

