

2013 TAPPI Tissue Properties & Manufacturing

April 27-28, 2013 | Hyatt Atlanta Downtown, Atlanta, Georgia USA



TISSUE PROPERTIES COURSE SCHEDULE

Saturday, April 27, 2013

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| 8:00am – 8:30am | Welcome, Introductions of Participants, Course Objectives | |
| 8:30am – 10:00am | Tissue /Towel Properties, | Michael J. Kocurek, NC State |
| | <ul style="list-style-type: none">• Structure of Tissue: Bulk, Fiber Orientation, Formation, Multi-Layering• Physical Tests and What They Mean: Softness, Absorbency, Strength; Fundamentals Affecting Properties• Softness Panel Testing, Softness Prediction Models | |
| 10:00am -11:00am | Fiber Sources and Properties, | Michael J. Kocurek |
| | <ul style="list-style-type: none">• Types of Fibers for Tissue and Toweling: Hardwoods, Softwoods, Chemical, Mechanical , Recycled Pulps• Challenges with Recycled Fibers & Pulp | |
| 11:00am-noon | Stock Preparation Refining for Tissue | |
| Noon - 1:00pm | LUNCH | |
| 1:00pm – 3:30pm | Tissue Wet End Chemicals, | Lucyna M. Pawlowska, Kemira |
| | <ul style="list-style-type: none">• Wet End Chemicals, Retention and Drainage Aids• Dry Strength & Wet Strength, Permanent & Temporary• Control of Deposits and Stickies, Defoamers• Debonders and Softeners, Absorbancy Aids | |
| 3:30pm –5:30pm | Tissue Wet End Operations, | Bruce Janda, InnovaSpec |
| | <ul style="list-style-type: none">• Approach Systems• Crescent, Twin Wire (C), SBR, Tissue & Toweling Formers• Towel Fourdrinier Forming• Tissue Headbox Design Variables, Multi-layering, Dilution Headboxes• Generation of Microturbulence• Slice Geometry, CD Profile• Jet/Wire Velocity, MD/CD Orientation• Microturbulence & Formation | |
| 5:30pm | ADJOURNMENT | |

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Sunday, April 28, 2013

8:00am –10:30am Tissue Machine Forming and Wet Press Fabrics, **Peter McCabe, Roger Banks, William Bonds, Asten Johnson**

- Terminology, Functionality, and Selection Criteria
- Improvements in Fabric Design & Benefits for *Tissue*
- Role of the Fabric in Forming and Pressing
- Cleaning and Conditioning Fabrics

10:30am –12:00pm Structured Tissue

- Role of the Fabric in Creating Structured Tissue, **Peter McCabe, Asten Johnson**
- Wet Forming Technologies, **Bruce Janda**

12:00pm – 1:00pm LUNCH

1:00pm – 2:00pm Tissue Drying, **Bruce Janda**

- Yankee Dryers, Hot Air Hoods
- Through Air Drying(TAD)

2:00pm–3:30pm Creping and Yankee Coatings and Chemicals, **Lucyna M. Pawlowska**

- Adhesives, release chemicals, MAP
- Applications & Chemistry

3:30pm–5:00pm Creping and Doctor Blades, **Jeff Peters, BTG**

- Geometry Variables(blade & impact angels, bevel, height, pressure, thickness, material, wear)
- Effects of creping variables on tissue structure and properties

5:00pm–5:30pm Calendering & embossing effects on properties, **Michael J. Kocurek**

Course wrap up

5:30pm ADJOURNMENT