

Lake States TAPPI & UWSP Extension  
"Paper Machine Operations & Testing"  
***Interactive Learning Sessions on Paper Machine Basics, Paper  
Testing, and On-line & Off-line Calendering***

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**TUESDAY, APRIL 12, 2005, UW - STEVENS POINT**

**Using the Paper Science Department's Test Lab & Paper Machine**

*Pre-registration fee: \$125.00. On-site registration: \$150.00.*

*Students and retirees reduced rate if pre-registered: \$35.00, on-site: \$70.00.*

*Pre-registration is recommended to guarantee placement in the class.*

*Send pre-registration fees by April 4, 2005 to Membership Services*

*Administrator: Clark Schabo, W5562 Center Valley Rd, Black Creek, WI 54106*

*Phone: (920) 734-5073. Pre-registering by FAX-credit card only (920) 830-9610*

### **Session Overview**

This program will provide an understanding or refresher in the basics of paper machine technology. The workshops will focus on practical papermaking. Attendees will have an up-close look at the UWSP paper machine and see testing demonstrations of the fundamental paper tests. The basics of calendering both on-line and off-line will also be discussed. An interactive area with the newest pulp and paper testing equipment will be on display by multiple vendors. One can rotate through four, ninety minute concurrent sessions. Time will also be devoted to questions from the class on specific paper machine and paper testing issues. All sessions are participant interactive. Session handouts will also be provided.

### **Who Should Attend**

Paper Mill Personnel, Printers, Converters, End Users, Lab Personnel, Quality Control, Engineers, Supervisors, Paper Sales groups, Suppliers, and Students, as well as, others interested in learning more about basic paper machine operations and paper testing.

### **Schedule**

#### **Schedule Overview:**

7:30-8:15 AM	Registration
8:15-8:30 AM	Introduction
8:30-10:00 AM	All sessions
10:00-10:30 AM	Break
10:30-12:00 AM	All sessions
12:00-1:00 PM	Lunch*
1:00-2:30 PM	All sessions
2:30-3:00 PM	Break
3:00-4:30 PM	All sessions
4:30-5:30 PM	Refreshments in trade fair area

\* with brief Lake States TAPPI Annual Meeting

### **Workshop Details**

**Each of the 4 concurrent workshops will be presented four times during the day in order to provide small group (30 people) interactive discussions.**

#### **Session A: Paper Machine Basics – UWSP**

This session will take place along side of the pilot paper machine. Paper machine basics will be described. Participants will interactively focus on the effects of adjusting jet/wire ratios and observe the other adjustments necessary to maintain stable operations. Paper will be made which will be tested in the Test Lab Basics Session.

#### **Session B: Dry End Test Lab Basics – UWSP**

The standard dry end tests will be performed in the lab using paper made during the Paper Machine Basics Session. Tests such as caliper, basis weight, formation, and mechanical strength properties will be measured for the various conditions run on the pilot machine. Machine and cross-machine direction (MD & CD) influences will be discussed.

#### **Session C: On-line & Off-line Calendering Basics – Mark Sorenson, Küsters; Dr. Tony Lyons, Imerys; Martti Tuomisto, Metso**

This session is presented by the TAPPI Calendering Common Interest Group. The factors which influence the calendering process will be discussed as well as the theory that can be applied to the process. This session gives examples of different grades and what typical equipment might be used to produce those grades. Practical examples showing how the equipment works and how some common problems can be solved are presented.

#### **Session D: Pulp & Paper Test Equipment Demonstrations**

A mini trade fair format will be used to showcase new pulp and paper test equipment. Vendors will have interactive demonstrations of their equipment. Participants are encouraged to bring samples for testing.

#### **TAPPI ANTITRUST POLICY**

TAPPI's aim is to promote research and education, and to arrange for the collection, dissemination and interchange of technical concepts and information in fields of interest to its members. TAPPI is not intended to, and may not, play any role in the competitive decisions of its members or their employer, or in any way restrict competition among companies.

*Session Chairs: Sandra Lenz, Appleton Coated; Dennis Shaffer, Global Technologies; Don Gunderson, UWSP Paper Science Foundation  
For further details call Sandra Lenz (920) 687-3559.*

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TUESDAY, APRIL 12, 2005  
UW – STEVENS POINT  
PAPER SCIENCE DEPARTMENT  
STEVENS POINT, WI

**Workshops:**

- ? *Paper Machine Basics*
- ? *Dry End Test Lab Basics*
- ? *On-line & Off-line  
Calendering Basics*
- ? *New Pulp & Paper Test  
Equipment Demonstrations*

**Note: Great Paper Mill Personnel and Paper End User  
Training**