PAPER MACHINE OPERATIONS:
Understanding & Improving Paper Machine Operations & Product Quality

June 7 - 9, 2011
Paper Discovery Center
Appleton, WI USA

Course Chair

The course chairman is James W. Atkins. Mr. Atkins is president of Atkins, Inc., a consulting company. He has over forty years in the paper industry and has held the titles of Manager Paper Manufacturing, Mill Manager, and VP/General Manager in several paper companies. He has a Bachelor’s degree in chemistry from the University of North Carolina.

Atkins has also written, directed, and produced several TAPPI CBT training courses including Making Pulp and Paper and Practical Papermaking. He has been active in TAPPI and has served as Chairman of the Paper and Board Manufacturing Division, and was elected to the TAPPI Board of Directors. He is a TAPPI Fellow and has received the Paper and Board Manufacturing Division Leadership Award and Division Technical Award. Atkins is also a technical editor for TAPPI Journal. He has written over 30 articles on papermaking and made numerous presentations to TAPPI, PIMA, and other industry groups. He is a member of the International Association of Scientific Papermakers.

Atkins will be assisted by Chad Martin, Ellen Gibbs, and Richard Smith of Albany International.

Designed to help you learn ‘why’ things happen on a paper machine, this three-day course focuses on improving your understanding of the overall paper machine operation and improving paper machine operations and product quality.

This course will provide participants with an improved understanding of the overall paper machine operation. Fundamental understanding of fiber properties and the way the mechanical components function on the paper machine will give the participant the tools needed to more quickly troubleshoot operational problems and improve paper machine operations and product quality.

What you will learn?

This course will provide fundamental training on the design and operation of the paper machine and support systems, and is designed for operators and other individuals who are involved with the day-to-day operation of the paper machine. Learn more about ‘why’ things happen on a paper machine, as opposed to ‘how’.

Gain a deeper understanding of fiber properties and the way the mechanical components function on the paper machine so you will be able to troubleshoot operational problems more quickly while improving paper machine operations and product quality.

After successfully completing this course, participants should be able to:

- Describe how the mechanical components and operations of the paper machine affect the structure of paper and thus the quality.
- Identify design and operating features of the paper machine that affect machine performance.
- Identify ways to improve paper machine efficiency and product quality based on a new understanding of the overall operation.

For more information visit www.tappi.org/11papops
Who should attend?
This course will be particularly helpful to –

- paper machine operators
- technicians
- process engineers
- product development engineers from paper manufacturers
- service technicians & engineers from clothing, chemical and other suppliers

It is applicable to individuals with minimal experience around a paper machine, as well as operators who have considerable hands-on operational experience.

This course is not intended for employees of tissue companies. Those interested in learning about tissue may be more interested in the TAPPI Tissue Runnability Course.

Continuing Education Credits
The Education Project Center of TAPPI has been reviewed and approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1620 I Street, NW, Suite 615, Washington, DC 20006. TAPPI will award 2.0 CEUs to participants who attend at least 80% of the educational sessions and complete a final program evaluation.

For more information visit
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Course Agenda

Day One
Session 1
8:00am – 8:30am – Introduction to Paper Machine Operations
8:30am – 9:30am – Wood Fiber & Paper Structure - Part One
9:30am – 10:30am – Wood Fiber & Paper Structure - Part Two
10:30am – 12:00pm – Stock Prep Overview
12:00pm – 1:00pm – Lunch

Session 2
1:00pm – 2:30pm – Stock Approach System Design
2:30pm – 4:30pm – Design and Operation of Headboxes
4:30pm – Session ends

Day Two
Session 3
8:00am – 9:30am – The Fourdrinier and Sheet Forming
9:30am – 10:30am – Twin-Wire Forming
10:30am – 12:00pm – Forming Fabric Design
12:00pm – 1:00pm – Lunch

Session 4
1:00pm – 3:30pm – Fundamentals of Pressing
3:30pm – 4:30pm – Vacuum Systems
4:30pm – Session Ends

Day Three
Session 5
8:00am – 9:30am – Press Section Clothing
9:30am – 11:00am – Dryer Fabric Design
11:00am – 12:00pm – Principles of Drying
12:00pm – 1:00pm – Lunch

Session 6
1:00pm – 2:00pm – Steam and Condensate Systems
2:00pm – 4:30pm – Introduction to Paper Machine Problem Solving
4:30pm – Course Ends