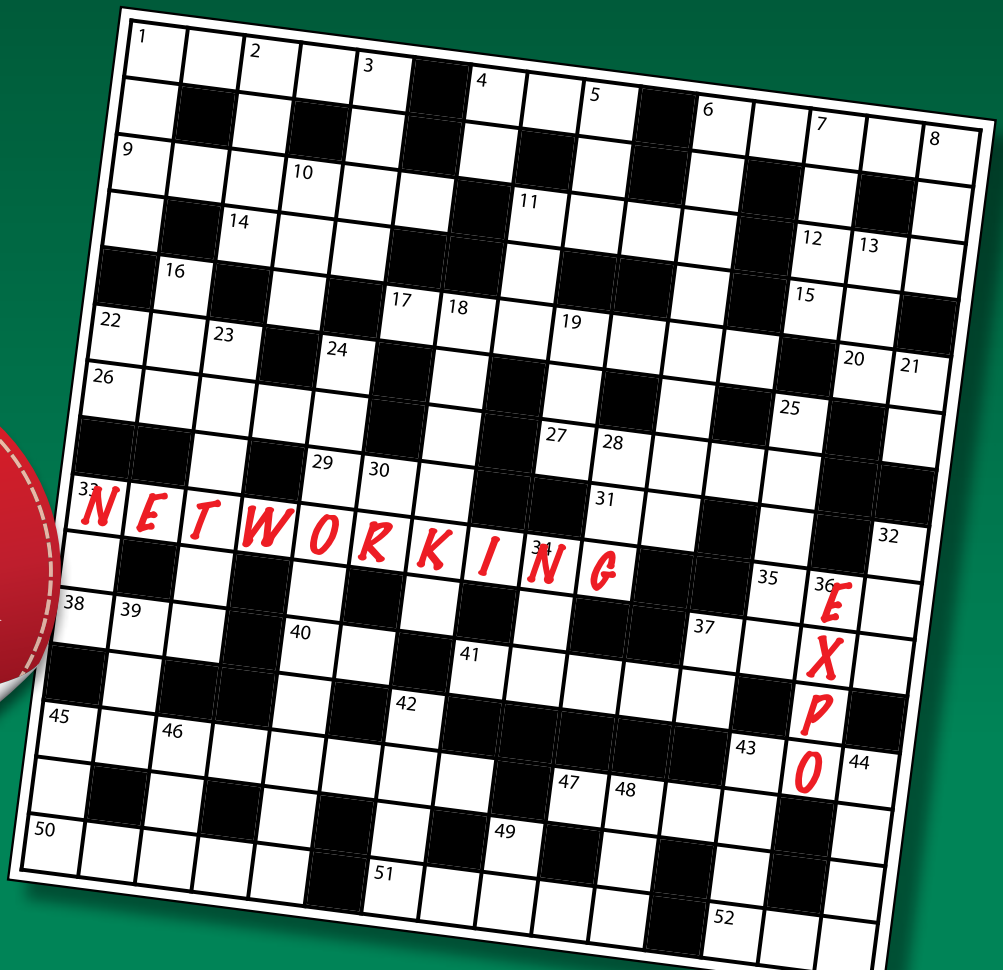


# TAPPI

## 2012 CATALOG

**MEMBERSHIP TODAY,  
TOMORROW AND  
INTO THE FUTURE**

**NEW  
ENHANCED  
EVENT  
CALENDAR  
INSIDE!**



# THE TAPPI TEAM



**David Bell**  
Vice President of  
Corporate Relations



**Charles Bohanan**  
Director of  
Standards and Awards



**Mary Ann Cauthen**  
Member Group  
Coordinator



**Deborah Chafin**  
Marketing Specialist



**Mary Beth Cornell**  
Membership and Global  
Development Director



**Sarah Ellsworth**  
Administrative  
Assistant



**Eric Fletty**  
Vice President,  
Operations



**Peter Gaddie**  
Director of  
Corporate Accounts



**Libby Hardison  
Settle**  
Events Manager



**Elise Hitchcock**  
Association Management and  
Account Services Coordinator



**Raine Hyde**  
Account Manager – PLACE  
and Nanotechnology Divisions



**Piper James**  
Membership &  
Operations Coordinator



**Marilyn Jeans**  
Meeting Planner



**Kristi Ledbetter**  
Converting Division  
Manager



**Christine Lemon**  
Content Development  
Specialist



**Grayson Lutz**  
Meetings Manager



**Lori Madeline-Smith**  
Member Services  
Manager



**Simona Marcellus**  
Director of Marketing



**Craig McKinney**  
Program Manager



**Larry Montague**  
TAPPI President  
and CEO



**Glen Ostle**  
Editorial Director/Associ-  
ate Publisher, *Paper 360°*



**Ken Patrick**  
Pulp & Paper Publications  
Technical Lead



**Ed Robie**  
Senior Meeting  
Manager



**Karen Roman**  
Webmaster



**Lisa Stephens**  
PRESS Operations  
Manager



**Pat Stiede**  
Office Manager



**Scott Springmier**  
Pulp and Paper  
Division Manager



**Debbie Trimmer**  
Member Relations  
Coordinator



**Colleen C. Walker,  
Ph.D.**  
Project Manager &  
Technical Lead

# A WORD FROM LARRY...



**Larry N. Montague**  
TAPPI President & CEO

**At TAPPI** we take great pride in having achieved four consecutive years of operating in the black. In a prolonged period of economic uncertainty, it takes more than efficiency and thrift to survive, much less thrive, as TAPPI has done. Over the past several years, our members spoke and we listened by focusing our efforts on providing unparalleled membership value. The proof of that value is in our growing numbers.

At the end of our past fiscal year, new member numbers rose to a nine year, all-time high. In just one month last year, our new member totals increased an amazing 142.4% year-over-year, while our retention numbers continued to climb with a 40.4% increase in the first few months of the new fiscal year. TAPPI's membership numbers are growing because our members understand the inherent value of shared information and networking – today, tomorrow and into the future.

As we present this year's catalog, that same value proposition holds true. Within its pages you will find a wealth of publications, training and educational offerings designed to help you solve on-the-job problems, answer technical questions and provide the information necessary to help advance your career. Please use it as our members do – as an important and reliable resource throughout the coming year.

As always, my thanks go to TAPPI's Board of Directors, staff, and industry partners for making the past year such a successful one. But no greater thanks are shared than those with our thousands of members whose dedicated support is the foundation of our success.

**And remember, there are two types of people in this industry- TAPPI members and those who should be.**

## WHAT'S INSIDE

### TABLE OF CONTENTS

- ▶ About TAPPI..... 4
- ▶ Crossword ..... 7
- ▶ Featured Products..... 8
- ▶ Calendar of Events ..... 16
- ▶ TAPPI Committees..... 19
- ▶ Member Benefits..... 21
- ▶ Title Index ..... 25



# All About TAPPI

## Knowledge. News. Networking.

In 1915, thirty enterprising papermakers gathered together determined to form a new technical arm of the American Paper & Pulp Association (APPA). Their idea was to gather and disseminate information concerning matters which have to do with production. This forward thinking group wanted to create a forum where information could be channeled and ideas could be exchanged. In less than a year, TAPPI was born and more than 95 years later, their formula for success continues to work.

### Our Roots Run Deep (No Pun Intended)

We are a not for profit, volunteer-led association that is built around a community comprised of thousands of member engineers, managers, scientists, academics, suppliers and others from around the world.

Our headquarters is located right outside of Atlanta, Georgia USA. Members love to tour the building and see historic items like early TAPPI Standards, issues of TAPPI publications dating back to the early 1920's or just see a unique collection of papermaking heirlooms. If you stop by, take a tour of our library and don't forget to walk out on the deck to see the legendary TAPPI totem pole, donated by our Pacific Local Section. Take a short walk down the halls and meet the TAPPI Team and hear first-hand about some of the great things our members and volunteers are doing to support the TAPPI community.

### Innovation

Our focus has always been on emerging technologies and driving innovation for the paper and packaging industry. Yet, we are so much more. Our growing international membership ranks include rising stars in bioenergy and biofuels, renewable chemicals, sustainability, and nanotechnology areas.

### We Set the Standard – Literally

As an ANSI-Certified Standards development organization, TAPPI's peer-reviewed Standards ensure that products meet industry recognized best practices. Our Standards not only demonstrate how to maximize performance, they provide new ideas and operational methods to improve production. Our members and volunteers drive the development of the Standards and TIPS that are used around the world.

### Providing Quality Education

We provide premier educational resources to support the day-to-day duties of industry professionals, as well as research and academic pursuits. We do so by offering over 30 international conferences, symposia, and courses each year, and our IACET-approved status ensures quality, and continuous improvement, in all our event programs.

### Fit to Print – Naturally!

When our members look for leading-edge news in the industry, they turn to us as the go-to resource. That's because our targeted publications serve up the knowledge and news they need – tailored specifically to their areas of interest. There are ten publications and specialty newsletters that are free with membership, including Paper360° – our flagship publication – and *TAPPI JOURNAL*, a peer-reviewed, scientific periodical covering key research and technology developments.



TAPPI Headquarters

## The Power of TAPPI Members

We've never lost sight of what keeps us thriving – our incredibly talented community of members, volunteers and experts. Keeping them informed, engaged and energized is our goal. We provide an open forum for communication and an environment to cultivate relationships with some of the brightest minds in the industry. All backed by a rock solid antitrust compliance policy. Our members leverage the power of peer-to-peer connections, and tap into the largest repository of technical industry information in the world.

**Fact #1** – Looking for information? We have over 18,000 technical papers articles and studies in the TAPPI e-library.

**Fact #2** – TAPPI.org receives over 30,000 unique visitors each month (now that's a community!)

**Fact #3** – Our publications reach over 40,000 professionals a month.

**Fact #4** – Get Involved! We have over 300 active committees.

**Fact #5** – We provide up to \$140,000\* each year in awards and scholarships.



15 Technology Parkway South  
Norcross, GA 30092  
+1-770-446-1400 • [www.tappi.org](http://www.tappi.org)

\*These are endowed awards that vary in value each year.

## Our Conferences and Symposia

- Advanced Coating Fundamentals Symposium
- BioProExpo
- CorrExpo
- EuroPLACE Conference
- International Bioenergy and Bioproducts Conference (IBBC)
- International Chemical Recovery Conference (ICRC)
- International Conference on Nanotechnology for Renewable Materials
- International Pulp Bleaching Conference
- NETInc Conference
- PaperCon
- PEERS Conference
- PLACE Conference
- Shipping, Receiving and Warehousing Workshop (SRW)
- SuperCorrExpo®
- TAPPI/PIRA Paperboard Packaging Conference
- TAPPI/PIRA Specialty Papers Conference

## Our Courses

- Biorefinery Course
- Essentials of Market Pulp Course
- Extrusion Coating Course
- Hands-On Workshop for Pulp and Paper Basics
- Improving Paper Machine Performance Course
- Intro to Kraft Pulping and Bleaching
- Intro to Pulp & Paper Technology
- Intro to Wet End Chemistry
- Kraft Recovery Course
- Lean Maintenance for the Corrugated Industry
- Lean Manufacturing Flexo and Die Cutters
- Linerboard/Medium and Corrugated Box Manufacture
- Paper Machine Operations Course
- Tissue Properties and Manufacture
- Tissue Runnability Course

TAPPI Accredited by:



## Volunteer Opportunities

- Local Sections
- Student Chapters
- Young Professionals
- Committee Volunteer
- Standards and TIPs Development

## Publications

- Paper360°
- TAPPI JOURNAL
- Progress in Paper Recycling (PPR)
- Frontline Focus
- Corrugated Today
- Over the Wire

TAPPI Accredited by:



- Over the Wire Tissue
- Ahead of the Curve
- PLACE Weekly Wrap-Up
- Standards and TIPs Action Report (STAR)
- Caught in the NET

## Bookstore

- Books
- Conference Proceedings
- Market Reports and Studies
- Salary Surveys
- Standards Online (includes Standards, TIPs and Useful Methods)
- Web-based Training Series

## Other Products and Services

- Buyers Guide (online)
- Career Center
- Company Classrooms
- e-Library
- Product and Service Guide (print)
- Recruiting Resources ([www.careersinpaper.org](http://www.careersinpaper.org))
- TAPPI Consulting Council (TCC)

[www.tappi.org](http://www.tappi.org)

\*TAPPI portfolio subject to change



[www.papercon.org](http://www.papercon.org)

April 22-25 • New Orleans  
**PaperCon 2012**  
Growing the Future

With the industry's largest technical program, PaperCon delivers four days of peer-reviewed sessions and unrivaled networking.

**What's new for 2012?**

**Control Systems 2012:** The first US appearance for this highly-respected bi-annual conference.

**RPTA Production-Technical Seminar:** Addressing the unique challenges and market dynamics of recycled paperboard manufacturing.

**OpEx Reliability Seminar:** A two-day seminar designed for mill maintenance and reliability supervisors.

**Coating 101 Course:** An introductory course covering the basic science behind the complex paper and board coating marketplace.

**PaperCon: It's where the industry gathers.**



**12<sup>th</sup>**

**TAPPI**

**Advanced Coating  
Fundamentals Symposium (ACFS)**

**September 10-12, 2012 • Loews Atlanta Hotel • Atlanta, Georgia USA**

Co-located with the 16th International Coating Science and Technology Symposium (ICSTS)



**Join us in Atlanta!**

Learn more about the event  
at [www.tappi.org/12acf](http://www.tappi.org/12acf).



Scan with your phone's  
QR code reader to learn more  
about this not-to-miss event.

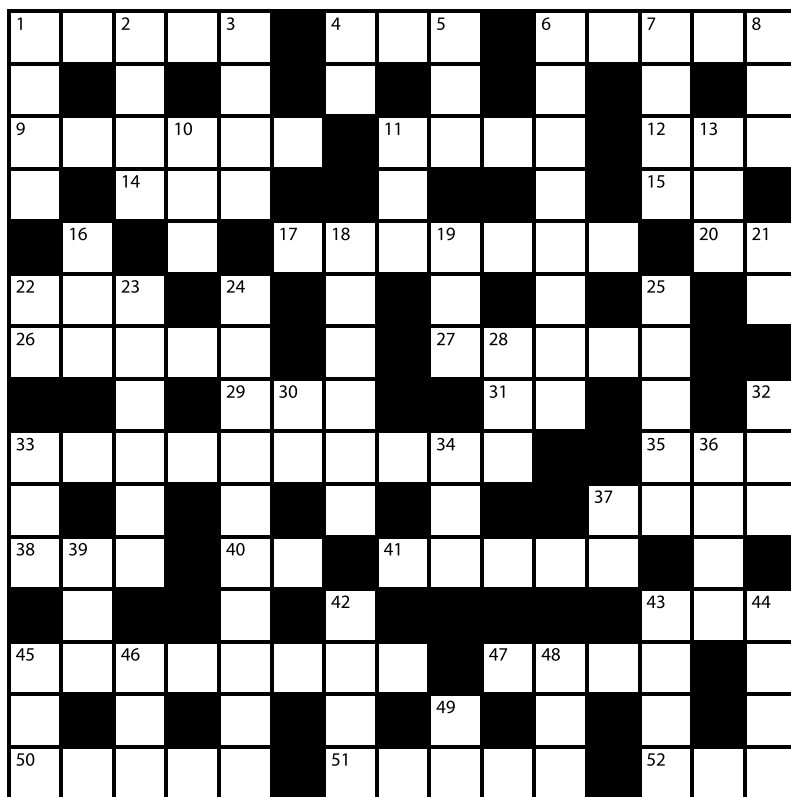
# TAPPI BRAIN TEASER!

## ACROSS

1. Author of *Fundamentals of the Kraft Recovery Process*
4. \_\_\_\_\_ fuels
6. Sponsor of Ahead of the Curve
9. Student event
11. Consumer
12. Fido foot
14. Coating and Graphic \_\_\_\_\_
15. Columbia - State Capital
17. PIMA's 2011 Executive of the Year
20. Abbreviation for the TAPPI Journal
22. Established
26. Peers 2011 Keynote Speaker
27. Class of paper
29. Is no longer
31. "\_\_\_\_ - crowd"
33. TAPPI member benefit
35. Behold, get the picture
37. Modern message format
38. Technical Consulting Council, abbreviation
40. Paper weight measurement
41. *Paper360°*, Around the Industry, Around the \_\_\_\_\_
43. Companies, for short
45. President and CEO of TAPPI
47. Emission spectrum of Cu<sup>2+</sup>
50. Mixture of a color with white
51. Plastics, Laminates, Adhesives, Coatings and Extrusion Division
52. Connect to, fasten

## DOWN

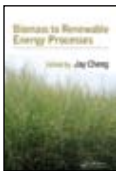
1. Effortless
2. New TAPPI division
3. To give-off or release
4. Alongside, in proximity to
5. Photo \_\_\_\_\_
6. 2011 TAPPI Chairman of the Board
7. Abbreviation for Technical Information Papers
8. Abbreviation for Over The Wire
10. Wife
11. California University
13. Take steps
16. According to
18. 49th state



19. Barrel of Beer
21. Comes under senior
22. West coast city, for short
23. Strategic plan
24. PaperCon 2012 locale
25. Richard A. \_\_\_\_\_, 2011 Gunnar Nicholson Gold Medalist
28. Impvise or make-do
30. Accounts receivable
32. \_\_\_\_\_ end chemistry
33. Nonwovens Engineers and Technologist Division, \_\_\_\_\_ Inc
34. Prefix, recent
36. 2012 SuperCorr
37. Football score
39. Chief Executive Officer, for short
42. Coming soon, bleaching of \_\_\_\_\_
43. Small change
44. Type of chart used with T 564
45. Bumped into, to come face-to-face with
46. An engineer's fabric made directly from a web of fiber, \_\_\_\_\_ wovens
48. Recline
49. Des Moines' state

Answers on page 11

## BIOENERGY



### Biomass to Renewable Energy Processes

*Edited by: Jay Cheng, North Carolina State University*

This book introduces fundamental principles and practical applications of biomass-to-renewable energy processes. The biological processes discussed include:

- Anaerobic digestion of waste materials for biogas and hydrogen production
- Bioethanol and biobutanol production from starch and cellulose
- Biodiesel production from plant oils

The thermal processes addressed include gasification and pyrolysis of agricultural residues and woody biomass. The text covers pretreatment technologies, enzymatic reactions, fermentation, and microbiological metabolisms and pathways. It also explores the engineering principles of biomass gasification and pyrolysis and potential end-products.

**Item Code: 09BIOMASS · List: \$130; Member: \$100**

**NEW!**

### Biomass Gasification and Pyrolysis

*By: Prabir Basu*

Modernized biomass gasification for power generation has attracted increasing interests as an attempt to reduce our reliance on fossil fuel. In fact, over the past couple of years, a lot of R&D has gone into overcoming the technical hurdles of biomass gasification mainly producing clean gas which is free of particulates and tars bed agglomeration and biomass feeding/handling.



This book offers engineers and scientist a “hands on” reference for understanding and successfully overcoming these hurdles. In this book, readers find a versatile resource that not only explains the basic principles of energy conversion and biomass conversion systems but also provides valuable insight into the design of biomass gasifiers. Thorough in his coverage, the author provides many worked out design problems, step-by-step design procedures, and real data on commercially operating systems. In addition, the book contains four valuable appendices that eliminate the need to search for essential information.

**Item code: 11PYROL · List: \$135; Member: \$125**



**NEW!**

### Lignin & Lignans Advances in Chemistry

*Edited by: Cyril Heitner, Don Dimmel, John Schmidt*

Over the past four decades, there has been immense progress in every area of lignin science, ranging from the enzymology of lignin biodegradation, to the delignification of wood fiber during pulping and bleaching, to advances in spectroscopy. *Lignin and Lignans: Advances in Chemistry* captures the developments that have been achieved by world-class scientists in the most critical aspects of this burgeoning field.

#### Tools for the characterization of lignin and lignans

After an overview of the topic, the book discusses the significance and comparative performances of the most commonly used chemical degradation methods and presents lignin structural information based on the use of these methods. Next, the book explores spectroscopic

methods, including UV-visible absorption, fluorescence, Raman, infra red (IR), near-infrared (NIR), nuclear magnetic resonance (NMR), and heteronuclear NMR spectroscopy. It then compares the results of studies of lignin *in situ* with studies of isolated lignins.

#### Predicting reactivity

The authors discuss polymer properties related to thermal stability and molecular motion of lignin in the solid state. They describe applications of electronic structure calculations to the chemistry of lignin, and they explore lignin reactions that occur during the chemical pulping of wood by soda, kraft, AQ, and polysulfide processes.

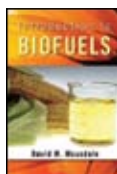
#### Chemistry associated with industrial processes

The book describes chemical pulp bleaching, oxidative and reductive lignin-retaining bleaching, and lignin biodegradation. It also examines the application of microorganisms and the enzymes they produce in the manufacturing of chemical and mechanical pulp. The book closes with chapters on photodegradation and chromophore formation and the pharmacological properties of lignans.

Highlighting significant developments on selected topics, this essential reference for those in industry and academia is designed to fuel further research and discovery in this specialized area, especially in the emerging field of biorefining.

**Item code: 11LIGNIN · List: \$170; Member: \$158**

**NEW!**



### Introduction to Biofuels

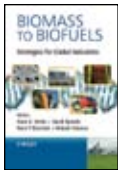
*By: David M. Mousdale*

What role will biofuels play in the scientific portfolio that might bring energy independence and security, revitalize rural infrastructures, and wean us off of our addiction to oil? The shifting energy landscape of the 21st century, with its increased demand for renewable energy technology, poses a worrying challenge. Discussing the multidisciplinary study of bioenergy and its potential for replacing fossil fuels in the coming decades, *Introduction to Biofuels* provides a roadmap for understanding the broad sweep of technological, sociological, and energy policy issues that intermingle and intertwine.

Copiously illustrated and with numerous examples, this book explores key technologies, including biotechnology, bioprocessing, and genetic reprogramming of microorganisms. The author examines the future of biofuels from a broader perspective, addressing the economic, social, and environmental issues crucial for studying the sustainable development of bioenergy. Each chapter begins with questions and provides the answers later in the chapter as key informational points. Embedded Science, Technology, Engineering, and Math (STEM) sections provide detailed derivations and equations for a subset of topics that can be found easily as buzzwords in popular media and on web sites. Together, the STEM topics form a thread of essential technologies and a guide to how researchers have established quantitative parameters that are crucial to the ever-growing biofuels database.

With so much information scattered throughout the literature, it is often difficult to make sense of what is real and what is an optimistic selling of ideas with no scientific credibility. This book does an excellent job of filtering through volumes of data, providing a historical perspective on which to anchor the information, and outlining the strengths and constraints of the different biofuels.

**Item code: 11INTBIO · List: \$120; Member: \$100**



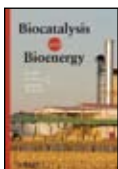
**NEW!**

## Biomass to Biofuels: Strategies for Global Industries

By: Dr. Alain Vertès (Editor), Dr. Nasib Qureshi (Co-Editor), Hideaki Yukawa (Co-Editor), Hans P. Blaschek (Co-Editor)

Focusing on the key challenges that still impede the realization of the billion-ton renewable fuels vision, this book integrates technological development and business development rationales to highlight the key technological developments that are necessary to industrialize biofuels on a global scale. Technological issues addressed in this work include fermentation and downstream processing technologies, as compared to current industrial practice and process economics. Business issues that provide the lens through which the technological review is performed span the entire biofuel value chain, from financial mechanisms to fund biotechnology start-ups in the biofuel arena up to large green field manufacturing projects, to raw material farming, collection and transport to the bioconversion plant, manufacturing, product recovery, storage, and transport to the point of sale. Emphasis has been placed throughout the book on providing a global view that takes into account the intrinsic characteristics of various biofuels markets from Brazil, the EU, the US, or Japan, to emerging economies as agricultural development and biofuel development appear undissociably linked.

Item code: 11BIOFUELS · List: \$90; Member: \$83



**NEW!**

## Biocatalysis and Bioenergy

By: C. T. Hou and Jei-Fu Shaw

An up-to-date overview of diverse findings and accomplishments in biocatalysis and bioenergy.

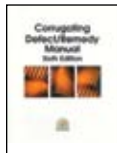
With the high price of petroleum and researchers worldwide seeking new means of producing energy, this comprehensive book on biocatalysis for bioenergy and biofuel applications is very timely. It combines information on state-of-the-art advances and in-depth reviews of the latest achievements in biocatalysis and bioenergy, emphasizing biodiesel, bioethanol, and industrial products. The advantages of biocatalysis include high specificity, efficiency, energy conservation, and pollution reduction. Biocatalysis and Bioenergy details advances in the field, with:

- Three primary sections, covering biodiesel research bioethanol, and industrial products
- Information on enzyme catalysis, biotransformation, bioconversion, fermentation, genetic engineering, and product recovery
- Contributions from leading experts worldwide who share their research and findings

The prospect of using biocatalysis for the production of energy has great potential due to its cost-effectiveness, the fact that it does not require a limited resource such as oil, and its potential universality of application and use globally. This is the definitive reference for biochemists and biochemical engineers, bioprocess and bioenergy scientists, physical and oil chemists (oleochemists), microbiologists, industrial microbiologists, molecular biologists, metabolic engineers working in biocatalysis, bioethanol, and biodiesel fuels, DOE scientists working on renewable energy, and other professionals in related fields.

Item code: 11BIOCAT · List: \$160; Member: \$140

## CORRUGATED PACKAGING



## Corrugating Defect / Remedy Manual, Sixth Edition

Edited by: James T. Carbone

This manual provides a basis for common knowledge of terms, definitions, and methods of correction of corrugated operational defects. The manual illustrates and provides causes and remedies for hundreds of defects affecting corrugated boxes. The manual is divided into four parts: Corrugated Problems; Printing Problems; Die Cutting Problems; and Finishing and Manufacturers' Joint Problems. The manual is also available on a full-color, searchable CD-ROM. 210 pages, soft cover.

Item Code: 0101R153 · List: \$130; Member: \$87



## Corrugated Containers Manufacturing Process

By: Jody A. Brittain, Stephen R. Perkins, and Phillip G. Schnell

This comprehensive textbook describes the entire process of manufacturing corrugated containers. In addition to detailed explanations, the book also features practical troubleshooting tips, and a discussion of common problems and solutions within each major section. Seven detailed chapters cover the following topics:

- Paper and the Papermaking Process
- Steam
- Corrugating Adhesives
- Singleface Operations
- Doublebacker Process
- Combined Board
- Converting

This textbook is designed to provide in-depth explanations and information for professionals working in all areas of the corrugated containers industry. 160 pages, soft cover.

Item code: 0101R281 · List: \$185; Member: \$37

## NANOTECHNOLOGY



**NEW!**

## Polymer Nanocomposites Handbook

Editors: Rakesh K. Gupta, Elliot Kennel, and Kwang-Jea Kim

Reflecting the exceptional growth in the use of nanostructured materials for an increasing range of industrial applications, *Polymer Nanocomposites Handbook* comprehensively covers the synthesis of nanomaterials that act as the building blocks of polymer nanocomposites and polymers that act as matrix materials.

From early history to new technologies, the book guides readers through the development of nanocomposites and their broad and rapidly developing applications from flame retardant properties to advances in polymer comounding. Using examples from today's leading academic and industrial research labs, top scientists provide in-depth discussions of the science, processing, and technology that have accompanied nanocomposites' ascension into the world of chemical and materials science.

With nineteen chapters authored by world leaders in nanocomposite research, this handbook provides diverse and authoritative coverage on the scientific underpinnings and revolutionary discoveries related to this promising field.

Item code: 11POLYNANO · List: \$145; Member: \$116



**NEW!**

## Nanotechnology Understanding Small System

By: Ben Rogers, Sumita Pennathur, Jesse Adams  
*Nanotechnology: Understanding Small Systems, Second Edition* works from the ground up to provide:

- A detailed yet accessible introduction to one of the world's fastest growing fields, understandable to members of a variety of disciplines
- A clear presentation of real-world examples and original illustrations, as well as hundreds of homework problems of varying types, including multiple choice, true-false, in-depth calculation, and essay (with complete solutions manual)
- A systems-based approach that illustrates how underlying areas of nano are assembled to create systems with unique functions and characteristics

Comparing nanoscale and macroscale systems reveals the complex and fundamental differences between phenomena at different scales and uncovers the specific challenges and opportunities of nano. With its engaging and entertaining style, this book provides a gateway into an exciting and rapidly evolving area of science.

Item code: 11NANOSMALL · List: \$100; Member: \$80



**NEW!**

## Nanotechnology Health and Environmental Risks

By: Jo Anne Shatkin

Offering a reader-friendly and affordable alternative to these options, *Nanotechnology: Health and Environmental Risks* introduces risk analysis as a tool for responsible environmental decision making in nanotechnology development and provides examples of past, present, and future technologies that demonstrate the need for and benefits of evaluating the risks of nanotechnology.

This book examines the opportunity costs inherent in current nanotechnology development. It introduces life cycle analysis, the toxicology of nanoscale materials, and the known impacts of specific nanoscale materials on people. The text also covers environmental impacts and exposure, followed by chapters on the state-of-the-art tools that adapt life cycle thinking into risk analysis for nanotechnology. The final chapters describe current practices for managing the hazards and risks of nanoscale materials and explore the numerous international efforts that address the risks, science, and policies of nanotechnology.

With full-color images and insights into key health and environmental aspects of nanotechnology, this resource shows how the risk analysis of nanotechnology can play an important role in creating a sustainable future.

Item code: 11NANOENV · List: \$52; Member: \$42

## NONWOVENS



## TAPPI Nonwovens Anthology CD: Binders and Additives

Developed by the TAPPI Binders and Additives Committee of the TAPPI Nonwovens Division

This comprehensive anthology, is a collection of technical papers focused on the technology and use of binders and additives in the manufacturing process of nonwoven fibers. Benefit from several decades of in-depth industry expertise on binders, resins and additives for chemically bonding and finishing nonwovens all in this one CD! This is a must-have for both new and veteran professionals working in this area of nonwovens manufacturing.

The Nonwovens Binders & Additives Committee of the Nonwovens Division facilitates the exchange of useful information on the technology and use of products that relate to or are based on continuous webs made from cellulose, synthetic and inorganic fibers that have been formed or treated with binders and additives that impart specific properties.

Item code: NWANTHCD-08 · List: \$100; Member: \$75

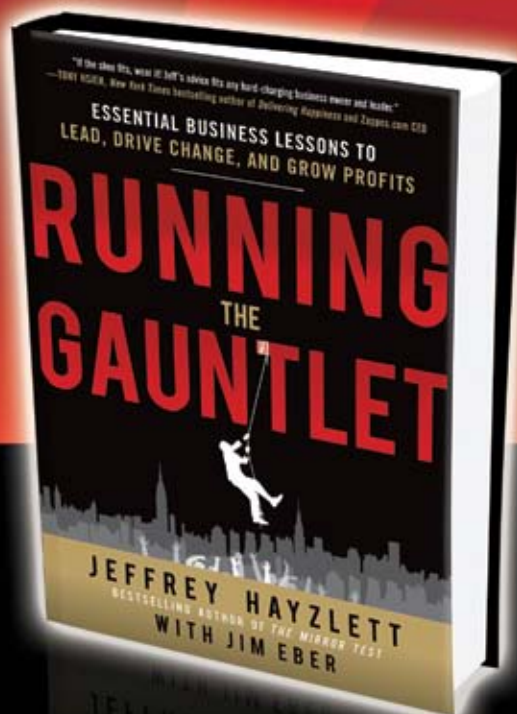
*"I've seen a lot of sharks, and Hayzlett's advice comes like a Hammerhead. He can smell blood from a mile away, so when Hayzlett jumps in big waters, some sharks have to jump out."*

-Daymond John, Founder & CEO of FUBU,  
star of ABC's business show *Shark Tank*

*"Running the Gauntlet" just played The Trump Card.  
This book is terrific!"*

-Ivanka Trump, EVP  
Trump Organization

Snap this tag to watch exclusive  
video content of Jeffrey Hayzlett



Jeffrey Hayzlett  
Global Business Celebrity

hayzlett.com



## Nonwovens: Theory, Process, Performance, and Testing

Edited by: Albin F. Turbak

Dr. Turbak, former professor and director of applied research at the Southern College of Technology, has chosen authors who are considered experts in their particular areas in the field of nonwovens development, engineering, and manufacture. This book can be used by industry and academia alike. As each chapter progresses from basics to advanced concepts, readers with any level of expertise from beginners through experts will derive value from this book. 256 pages, hard cover.

Item code: 0101R199 · List: \$128; Member: \$86

## POLYMERS, LAMINATES, ADHESIVES, COATINGS & EXTRUSIONS (PLACE)



### Roll and Web Defects Terminology, Second Edition

By: R. Duane Smith

The *Roll and Web Defect Terminology - 2nd Edition* describes defects commonly found in paper, film, Nonwoven webs and wound rolls. This edition has been expanded to include defects from processes that did not exist when the first edition was written more than 15 years ago. This book is a "Must Have" communication tool for suppliers and their customers to assist in the identification and elimination of Roll and Web Defects. This industry resource was written and edited by 22 Industry Experts with over 500 years of web handling and winding experience along with sixteen contributing editors. Each of the 224 defects has concise information which provides:

- A description of the defect
- An illustration of the defect
- The synonyms or "Also Known As" terms commonly used
- Cross references for these synonyms in index
- Common causes of the defect
- Common remedies of the defect
- Other sources of information published on the defect

'Roll and Web Defect Terminology', 2nd Edition has been recognized by web producing and converting industry experts as the most comprehensive reference guide available for addressing roll and web defects.

Item code: 0101R318 · List: \$210; Member: \$139

## COMING SOON! TAPPI'S FIRST E-BOOK

### Roll & Web Glossary

Details to be Announced!



### Mechanics of Rollers

By: David R. Roisum, Ph.D.

The *Mechanics of Rollers* combines the science of web handling with the application of rollers. This unique book covers design, application, and maintenance for rollers of all sizes, shapes, and webs. The *Mechanics*

of *Rollers* is a comprehensive yet easy-to-use reference containing hundreds of figures, tables, and design equations, plus bibliography, glossary, and index. A must-have text for anyone involved in buying, selling, or specifying rollers, this book will also be a valuable reference for machine designers, process engineers, and maintenance personnel in the paper, film, foil, nonwovens, textiles, and converting industries. 306 pages, soft cover.

Item Code: 0101R255 · List: \$112; Member: \$75



### Mechanics of Web Handling

By: David R. Roisum, Ph.D.

This unique book covers many aspects of web handling for manufacturing, converting, and printing. The book is applicable to any web including paper, film, foil, nonwovens, and textiles. *The Mechanics of Web*

*Handling* is designed for product, process, and maintenance engineers responsible for web machinery. Through this valuable text, readers will understand better how to design and operate machinery to avoid wrinkles, web breaks, registration, guiding, and other types of costly web problems. 222 pages, soft cover.

Item code: 0101R273 · List: \$112; Member: \$75



### Film Extrusion Manual, second edition

By: T.I. Butler

The *Film Extrusion Manual, Second Edition* focuses on the technology and science of polymer film extrusion. The material in this book's 42 chapters can be used to learn the basics of applied extrusion theory, as well as provide troubleshooting guidelines and solutions to many common problems encountered in the fabrication of thermoplastic films.

This book can be used as a stand-alone training resource for all levels of professional and operations personnel working in the plastics film industry including: plastic film manufacturing, converting, equipment suppliers, and polymer suppliers.

Item code: 0101R313 · List: \$205; Member: \$137

**NEW!**

### Web Machine Buying Guide - Designing For, Installing and Maintaining Web Equipment



By: David R. Roisum, Ph.D.

This one of a kind book, written by one of the world's leading web handling expert and experienced machine designer along with a team of specialists, offers a hands on step-by-step approach to investing in, acquiring and starting up web machinery. It is designed to assist plant-based personnel in the costing and planning of major machinery investment with a rigorous analysis of what needs to be done to acquire or replace equipment with minimal expense and maximum longterm efficiency, no matter what types of webs are being handled. The book ranges over the entire spectrum of machine buying from dealing with salespeople to the technical details of machinery design, contract formulation, financing and maintenance. Numerous case studies illustrate strategies to follow—and avoid—in purchasing standard, as well as custom designed, web machines.

Some of the highlights of the book include:

- Techniques to plan, shop and contract for, purchase, install and troubleshoot web machines
- For web machine builders, buyers, designers, project engineers, plant managers
- Film, foil, paper, heavy-duty materials, converting

Item Code: 11WEBMACH  
List: \$175; Member: \$150

### Crossword Puzzle Answers from Page 7

E	M	P	I	E	B	I	O	W	E	T	S	O
A	I	M	Y	P	A	I	T					
S	U	N	W	I	T	U	S	E	R	P	A	W
Y	A	R	T	S	S	S	C					
P	S	U	A	C	K	S	O	N	T	J		
S	E	T	N	L	E	L	R	R				
D	R	A	K	E	A	G	R	A	D	E		
C	W	A	S	T	I	N	E	W				
N	E	T	W	O	R	K	I	N	G	S	E	E
E	I	R	A	E								
T	C	C	L	B	W	O	R	L	D	P		
E												
M	O	N	T	A	G	U	E	B	L	U	E	I
E	O	N	L	L	T	I	N	Z				
T	I	N	T	S	P	L	A	C	E	T	I	E

## PULP/WOOD PRODUCTS & PAPERMAKING



### Fundamentals of Kraft Recovery

By: Jeff Empie

This book details the chemical engineering fundamentals of the kraft recovery process, including mass and energy balances, thermodynamics, fluid dynamics, phase separations, heat and mass transport phenomena, and reaction kinetics. Each kraft recovery unit operations, including multiple effect evaporation, recovery boiler operations, green liquor processing, causticizing, and white liquor processing is discussed in detail.

Sample problems are posed and detailed solutions are presented. Additional instructive process problems are included at the end of each chapter for analysis and solution by the reader. This book is ideal for senior or graduate level courses for pulp and paper, chemical, and mechanical engineers, as well as a valuable reference resource for practicing pulp mill engineers who want to better understand the kraft recovery process they operate each day.

Item code: 0101R327 · List: \$237; Member: \$171

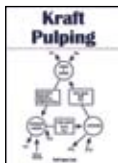
### Paper Machine Quality Control Systems - Volume 1: Measurement

By: the Quality Control Systems Education Common Interest Group of the Process Control Division



This book describes in detail the measurement technology used in Quality Controls Systems (QCS). Individual chapters are devoted to the five most prevalent QCS measurements (Basis Weight, Moisture, Caliper, Ash and Color) in the paper industry. Each of these chapters covers the physical principles involved in each measurement, sensor designs, various methods of implementation and influence factors. A somewhat lighter coverage is given to ten other QCS measurements that do not have such a broad installation base. Common issues that impact all sensors are explained, including how sensor performance is measured and reported, the impact of scanning process, filtering, scanner designs and construction, and sensor calibration and correlation. Statistical methods are covered in depth from discrete one-dimensional variability to multi-dimensional variability. Guidance is provided for using these statistical methods to locate the sources of variability in the paper process.

Item code: 0101R328 · List: \$205; Member: \$135

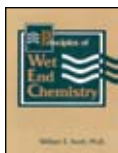


### Kraft Pulping

Edited by: A. Mimms, M.J. Kocurek, J.A. Pyatte, and E.E. Wright

Liberally illustrated with over 130 diagrams and photographs, this book includes basic formulas and diagrams to explain the structure of wood, variables affecting the quality and handling of wood chips, pulping chemistry and equipment, the pulping process, and black liquor recovery. Includes a glossary of frequently used terms. 204 pages, soft cover.

Item code: 0101R171 · List: \$87; Member: \$58



### Principles of Wet End Chemistry

By: William E. Scott, Ph.D.

This text offers an introductory overview of wet end chemistry. Written by Dr. Bill Scott of Miami University, this text will be a valuable reference tool for everyone involved in wet end chemistry. 185 pages, soft cover.

Item code: 0101R241 · List: \$64; Member: \$44



### Troubleshooting in the Papermaking Process

By: Jerome M. Gess and Paul H. Wilson

This book takes the reader through the process of making paper, pointing out where interruptions can occur and where elements which are added to the system can cause problems in that part or subsequent parts of the papermaking process. The aim of this book is to give papermakers and those involved in the papermaking process the information required to allow them to understand how to track down and solve problems at their source rather than where the problems surface. 165 pages, soft cover.

Item code: 0101R298 · List: \$161; Member: \$106



### Kraft Recovery Boilers

Written as a project of AF&PA and published by TAPPI PRESS

This comprehensive textbook covers recovery boilers in great depth and pulls together information on combustion, safety, emissions, plugging, and corrosion. The book also covers fundamental chemical and mechanical engineering principles that bear directly on black liquor and recovery boilers. It contains information about typical values and the normal range of important variables, plus many example calculations, data tables, and charts of relevant material properties or constants and conversion factors. Written by a team of industry experts, the text includes a great deal of practical information such as simple tests to pinpoint problems, important observations to help understand issues for particular operations, and "rules-of-thumb" that are generally used in the industry.

Item code: 0102B064 · List: \$140; Member: \$93



**NEW!**

### Chemistry of Modern Papermaking

By: Cornel Hagiopol and James W. Johnston

Presenting a chemist's perspective on the papermaking process, this volume is an extensive collection of data that combines the organic chemistry of paper with its potential applications. Within each chapter, paper chemicals are organized based on their chemical structure. After an introduction and brief history, the book explores the papermaking process, retention aids, temporary wet strength resins, wet strength resins, dry strength resins, internal sizing agents, creping adhesives and softeners, and chemicals for paper surface treatment. The book includes over 3000 references to facilitate further study.

Item code: 11CHEM · List: \$179; Member: \$159

## WAYS TO ORDER

### 1. Online at [www.tappi.org/bookstore](http://www.tappi.org/bookstore).

To view a specific product visit [www.tappi.org/itemcode](http://www.tappi.org/itemcode) (i.e.0109DIRTT)

### 2. By e-mail to [memberconnection@tappi.org](mailto:memberconnection@tappi.org).

### 3. Fax: +1 770 209-7206

### 4. By phone: please contact TAPPI's Member connection by phone at 1 800 332-8686 (US), 1 800 446-9431 (Canada), or +1 770 446-1400 (Worldwide).

**COMING SOON!**  
**SCHEDULED TO BE RELEASED WINTER 2012!**

## The Bleaching of Pulp

By: Peter W. Hart and Alan W. Rudie

Previous editions of *The Bleaching of Pulp* have provided comprehensive information on the technology used to bleach wood pulps. The 5th edition will continue this tradition as the premiere industry text on bleaching technologies but will be more focused on the modern industrial processes with less emphasis on fundamental science. New or more comprehensive sections are included on elemental chlorine free bleaching, enzymes, acid treatments for hexeneuronic acids, control of mineral scale and multi-stage modeling as used to optimize bleaching among multiple stages.

Item code: 0101R331

## RECYCLING



### Recycling Anthology CD-ROM (1994-2010)

This CD is a compilation of all articles, editorials, conference, patent and book reviews previously published in *Progress in Paper Recycling* from 1994 through the first quarter issue of 2010. *Progress in Paper Recycling* is a peer-reviewed quarterly journal dedicated to the science and technology of paper recycling. This CD contains over 60 issues and over 500 documents.

Item Code: PPRANTH-CD · List: \$249; Member: \$119

### Research Forum on Recycling Anthology CD-ROM

This CD is a compilation of all conference presentations from the 1st Research Forum on Recycling to the 9th Research Forum. This CD contains over 200 documents. The forum was a conference that brought together mill operations with some of the best researchers on recycling from around the world. An often referenced proceeding, this compilation allows the user to easily search topics of interest and quickly retrieve information to help with the problems and challenges of today.

Item code: RECFOR-CD · List: \$249;  
Member: \$119

### An Anthology of Fiber Recycling From TAPPI Conferences (1997-2010) and TAPPI the Recycling Symposium (1993-2000)

Edited by: R. Daniel Haynes

TAPPI's Recycling Symposium conferences occurred from 1993 to 2000 covering an exciting time of expansion in recycling capacity in North America. The industry faced many challenges as the paper recovery rate went from 40% in 1993 to over 64% in 2009. This CD contains over 500 documents and represents a compilation of all those

Recycling Symposium conference presentations from 1993 - 2000 and an anthology of other TAPPI conference presentations on recycling.

Item Code: RECSYM-CD · List: \$275; Member: \$145

Purchase all 3 and save 30%!

Item code: RECSETCD · List: \$541; Member: \$268

## TRAINING AND EDUCATION



### Pulp and Paper Technology Advanced Workforce Training and Education Series

Volume 1: Pulp Manufacturing

The Pulp and Paper Technology book series is a new industry resource for improving the knowledge base of new employees and incumbent hourly workers. It is the first in a series of resources developed jointly with TAPPI and the Community College Network (npt)2. Volume 1- Pulp Manufacturing tackles the "how" and "why" of pulp making. Topics include wood fiber fundamentals, overviews of the pulp mill, wood prep, kraft pulping, mechanical pulping, chemical recovery, bleaching and more! 121 pages, soft cover.

Item Number: 0101R317 · ISBN: 595101330 · List: \$60; Member: \$45



Volume 2- Paper Manufacturing provides an overview of the paper mill as well as the entire papermaking process from stock preparation to pressing and drying. Topics include: wet end chemistry, paper machine wet end, size press operation, and coating operation. The training series also includes a review at the end of each chapter. 146 pages, soft cover.

Item Number: 0101R320 · ISBN: 595101578 · List: \$60; Member: \$45  
Purchase the set for \$80.00 (member price) and \$110.00 (list price).

Students and academicians can purchase for a discounted price of \$30.00 by calling TAPPI PRESS at 1-800-332-8686 (U.S.), 1-800-446-9431 (Canada) +1-770-446-1400 (Worldwide) or by emailing [tappipress@brightkey.net](mailto:tappipress@brightkey.net) and referencing the discount code "WTES-30"

**TAPPI**

**\$25**

Bookstore  
Voucher

Source Code:  
CAT2012

To redeem your voucher, please visit [www.tappi.org/bookstore](http://www.tappi.org/bookstore) and enter promo code "CAT2012" in the shopping cart or contact Member Connection at 1 800 332-8686 (U.S.), 1 800 446-9431 (Canada), or +1 770 446-1400 (Worldwide). This voucher is good toward your next TAPPI PRESS published product over \$50.

Voucher expires December 31, 2012. This discount cannot be used on sale items or combined with other offers.

## Handbook of Pulp & Paper Technologist (The Smook Book), Third edition

By: Gary A. Smook



This best-selling text provides an introduction to the entire technology of pulp and paper manufacture. The book features 27 chapters covering all aspects of pulping and papermaking. Hundreds of illustrations, charts, and tables help the reader grasp the concepts being presented. The third edition features additional material

on secondary fiber recovery and utilization, mechanical pulping, kraft pulping and bleaching, and papermaking. 425 pages, hard cover.

Item code: 0202SMOOK · List: \$75; Member: \$56

## Handbook of Pulp & Paper Terminology: A Guide to Industrial and Technological Usage, Second Edition



Designed as a companion volume to *Handbook for Pulp & Paper Technologists*, *Handbook of Pulp & Paper Terminology: A Guide to Industrial and Technological Usage* has now been updated and expanded. The second edition of this dictionary contains more than 9,000 references, defines pulp and paper technological terms,

and is a necessity for the newly employed mill employee as well as consultants and suppliers who directly interact with the industry.

The dictionary is organized into 26 specialized glossaries, which enables the reader to concentrate on a specific area of interest. An additional chapter is provided for deciphering abbreviations and acronyms. Tying everything together is a complete alphabetical index with double entries for compound terminology. Offering a comprehensive source of information to anyone who reads, writes or converses in the vernacular of the pulp, paper or converting industries, this dictionary serves as an invaluable reference for every serious technologist. Published by Angus Wilde Publications Inc. 447 pages, hard cover.

Item code: 0202TERM · List: \$69; Member: \$69

## GENERAL INTEREST

### Standards, TIPS, and Useful Methods Online. On Demand. Access To Knowledge. Anytime. Anywhere.

Our Standards, TIPS, and Useful Methods Online subscription gives you point-and-click access to the most current TAPPI Standards, TIPS, and Useful Methods. Enjoy the convenience of online access and it's easy to get started. All you need is a username and password. No complicated, proprietary software to learn. Simply login and you're ready to go.

Member: \$250

Member Price with New Membership or Renewal: \$125

Product code: IND-LICENSE · List: \$485;

### Size Estimation Chart (transparency)

Developed from and based on the TAPPI Dirt Estimation Chart, this transparency is used



to measure the size of spots, defects, or inclusions over the range of 0.02 to 5.00 square millimeters in paper and other industrial materials such as textiles or plastics. Instructions for use of this transparency are outlined in TAPPI Test Method T 564. The chart can be used in a large number of applications where there is a need to estimate a size (area) by way of a direct

comparison to a known area disk or rectangle. Applications may include, but are not limited to, the measurement of visible ink spatter on printed surfaces, the estimation of the growth rate of bio-colonies, air inclusions in transparent plastic castings and films, etc. The chart must NOT be used to estimate the equivalent black area (EBA) of dirt or other colored specks (use the TAPPI Dirt Estimation Chart in conjunction with T 213 or T 437 or use image analysis, T 563, for EBA measurement). The charts are manufactured from an original negative produced on DuPont CRR film. A rapid-access processor using Kodak/Fujifilm chemistry is used for processing the transparencies. Each film positive is produced on Kodak Contact 2000 film, using a NuArc contacting frame with an NuArc light source and NuArc light integrator which controls the exposure. The cards are exposed to 20 units of light. To measure the accuracy of the end product, each transparency is measured by looking at the .20 dot with a 100-power magnifier that has a reticle (scale), incremented in 5/10,000's of a millimeter, on the lens. The dots on the chart are correct within an average 10% or 0.005 square millimeters, whichever is the larger.

Item code: 0109DIRTT · List: \$78; Member: \$53

### Dirt Estimation Chart

TAPPI's Dirt Chart cards are manufactured from an original negative produced on DuPont CRR film and estimate the equivalent black area (EBA) of dirt or other colored specks. The cards are processed on a rapid-access processor using Kodak/Fujifilm chemistry. Each card is produced on photographic paper via a contacting frame with an NuArc light source and NuArc light integrator which controls the specific exposure designated for accuracy and consistency. Cards are exposed to 20 units of light. To ensure the accuracy of the charts, each piece is measured by examining the 2.0 dot with a 100 x magnifier that has a reticle (scale) incremented in 5/10,000mm, on the lens. Card Stock. This opaque chart is to be used with TAPPI Test Methods T 213, T 437, and T 537.

Item code: 0109DIRT · List: \$53; Member: \$36

TAPPI

\$25

Events

Source Code:  
CAT2012

To redeem your voucher, please visit [www.tappi.org/bookstore](http://www.tappi.org/bookstore) and enter promo code "CAT2012" in the shopping cart or contact Member Connection at 1 800 332-8686 (U.S.), 1 800 446-9431 (Canada), or +1 770 446-1400 (Worldwide). This voucher is good toward your next TAPPI PRESS published product over \$50.

Voucher expires December 31, 2012. This discount cannot be used on sale items or combined with other offers.

# CONFERENCE PROCEEDINGS

<b>Title</b>	<b>Item#</b>	<b>List</b>	<b>Member</b>
<b>Corrugated Packaging</b>			
2009 Corrugated Conference Proceedings CD-ROM	CORRCO-09	\$111.00	\$74.00
2011 Corrugated Conference Proceedings CD-ROM	CORRCO-11	\$111.00	\$74.00
<b>Engineering, Pulping &amp; Environmental</b>			
2009 Engineering, Pulping and Environmental Conference Proceedings CD-ROM	EPECO-09	\$111.00	\$74.00
2010 PEERS Conference Proceedings CD-ROM	PEERS-10	\$111.00	\$74.00
2011 PEERS Conference Proceedings CD-ROM	PEERS-11	\$111.00	\$74.00
<b>Nonwovens</b>			
2009 International Nonwovens Technical Conference Proceedings CD-ROM	NON-09	\$175.00	\$130.00
TAPPI Nonwovens Anthology CD: Binders and Additives	NWANTHCO-08	\$100.00	\$75.00
NETINC 2010 Conference Proceedings	NETINC-10	\$175.00	\$130.00
NETINC 2011 Conference Proceedings	11NONCO	\$137.00	\$100.00
<b>Paper Coating, Printing &amp; Graphic Arts</b>			
2008 Advanced Coating Conference Proceedings (print only)	ADCTG-08	\$198.00	\$149.00
2010 Advanced Coating Conference Proceedings (print only)	ADCTGPRINT-10	\$198.00	\$149.00
2010 Advanced Coating Conference Proceedings CD-ROM Proceedings	ADCTGCO-10	\$111.00	\$74.00
<b>Papermaking</b>			
2009 PAPERCON Conference Proceedings CD-ROM	PAPERCO-09	\$111.00	\$74.00
2010 PAPERCON Conference Proceedings CD-ROM	PAPERCO-10	\$111.00	\$74.00
2011 PAPERCON Conference Proceedings CD-ROM	PAPERCO-11	\$111.00	\$74.00
<b>PLACE</b>			
2010 TAPPI PLACE Conference Proceedings CD-ROM	PLACECO-10	\$111.00	\$74.00
12th European PLACE Conference Proceedings-2009 CD-ROM	EuroPLACE CO-09	\$111.00	\$74.00
13th European PLACE Conference Proceedings-2009 CD-ROM	EuroPLACECO-11	\$111.00	\$74.00
<b>Recycling</b>			
"An Anthology of Fiber Recycling from TAPPI Conferences (1997 - 2010) And the TAPPI Recycling Symposium (1993 - 2000) CD-ROM	RECSYM-CO	\$275.00	\$145.00
Research Forum on Recycling Anthology CD-ROM	RECFOR-CO	\$249.00	\$119.00
<b>Other</b>			
2009 Int'l Bioenergy & Bioproducts Conference Proceedings CD-ROM	BIOCO-09	\$111.00	\$74.00
2009 Speciality Papers Conference Proceedings CD-ROM	09SPECPAPERCO	\$299.00	\$239.00
2009 Int'l Conference on Nanotechnology for the Forest Products Industry CD-ROM	09NANOCD	\$137.00	\$100.00
2010 Int'l Conference on Nanotechnology for the Forest Products Industry CD-ROM	10NANOCD	\$137.00	\$100.00
2011 Int'l Conference on Nanotechnology for the Forest Products Industry CD-ROM	11NANOCD	\$137.00	\$100.00
2010 Int'l Chemical Recovery Conference Proceedings CD-ROM	ICRC10-CO	\$111.00	\$74.00

# TAPPI CALENDAR OF EVENTS

## January 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
TAPPI Introduction to Pulp & Paper Technology TAPPI Kraft Recovery Course						

## February 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			
ASPI 2012 Spring Meeting						
TAPPI Best Practices on the Corrugator						
Foundation of Leadership Excellence Course						

## March 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
Hands-On Workshop for Pulp and Paper Basics Course						

## April 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					
2012 BLRBAC Spring Meeting TAPPI Shipping, Receiving, Warehousing Workshop (SRW) Advanced Biofuels Leadership Conference Renewable Chemicals Live						
TAPPI Linerboard Medium & Corrugated Box Manufacturing "Flexos" and "Die Cutters"						
TAPPI Troubleshooting "Flexos" and "Die Cutters"						
TAPPI Essentials of Market Pulp Course TAPPI Coating 101 Course						
TAPPI Coating 101 Course						
PaperCon 2012 Conference & Trade Fair Control Systems 2012 Conference (Co-located with PaperCon)						
TAPPI Corrugated Press Hands-On Maintenance Workshop						

# TAPPI CALENDAR OF EVENTS

## May 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	7	8	9	10	11	12
		<b>2012 PLACE North American Conference</b> Preventive Maintenance/ Essential Care and Condition Monitoring	<b>2012 PLACE North American Conference</b> Maintenance Planning and Scheduling & Reliability Based Spare Parts Management			
13	14	15	16	17	18	19
				<b>TAPPI Tissue Runnability Course</b>		
20	21	22	23	24	25	26
27	28	29	30	31		

## June 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3	4	5	6	7	8	9
		<b>International Nanotechnology Conference for Renewable Materials</b> Hands-On Workshop for Pulp and Paper Basics				
		<b>TAPPI Introduction to Wet-End Chemistry Course</b>				
10	11	12	13	14	15	16
		<b>TAPPI Paper Machine Operations Course</b>				
17	18	19	20	21	22	23
				<b>TAPPI Paper Machine Drives Course</b>		
24	25	26	27	28	29	30

## July 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## August 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		<b>To Be Determined: TAPPI Extrusion Coating Course</b>				
5	6	7	8	9	10	11
		<b>TAPPI Linerboard/Medium Manufacture Course</b>				
12	13	14	15	16	17	18
		<b>TAPPI Introduction to Kraft Pulping &amp; Bleaching Course</b>		<b>TAPPI Tissue Properties and Manufacturing</b>		
19	20	21	22	23	24	25
		<b>Improving Paper Machine Performance Course</b>				
26	27	28	29	30	31	

For the most current information on any of these events go to [www.tappi.org/calendar](http://www.tappi.org/calendar).

# TAPPI CALENDAR OF EVENTS

## September 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
	TAPPI Advanced Coating Fundamentals Symposium (Co-located with the 16th International Coating Science and Technology Symposium)					
	Preventive Maintenance/Essential Care and Condition Monitoring					
16	17	18	19	20	21	22
23 / 30	24	25	26	27	28	29

## November 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

To Be Determined:  
Tissue Properties and Manufacturing

Specialty Papers  
Conference

Maintenance Planning and Scheduling & Reliability  
Based Spare Parts Management

Root Cause Problem  
Elimination Training

## October 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7	8	9	10	11	12	13
14	15	16	17	18	19	20
	2012 TAPPI PEERS Conference					
	2012 TAPPI International Bioenergy & Bioproducts Conference					
21	22	23	24	25	26	27
28	29	30	31			

## December 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 / 30	24 / 31	25	26	27	28	29

# DIVISION HIGHLIGHTS

## COATING & GRAPHIC ARTS

- Provided networking and knowledge sharing for the global paper coating community.
- Organized the annual Coating Program at PaperCon and the biannual Advanced Coating Fundamentals Symposium.
- Hosted the annual "Hagemeyer Happy Hour" at PaperCon – the most fun technology discussion you can find anywhere!

For more information on this division contact **Scott Springmier**, [sspringmier@tappi.org](mailto:sspringmier@tappi.org).

## CORRUGATED

- Developed a Technical Program Committee which will identify and secure speakers and develop content for future Corrugated Division events.
- Division leaders produced a TAPPI Technical Symposium in conjunction with the SinoCorrugated event held in Shanghai
- The division continues a partnership with Corrugated Today magazine which produces a TAPPI section in each issue.

For more information on this division contact **Kristi Ledbetter**, [kledbetter@tappi.org](mailto:kledbetter@tappi.org).

## ENGINEERING

- The Engineering Division awarded David Clay with Jacobs Engineering the 2011 Engineering Division Technical Award & Beloit Prize and John Neun with Albany International the 2011 Engineering Division Leadership & Service Award.
- The Engineering Division held committee meetings and contributed sessions to the 2011 TAPPI PEERS Conference in Portland, Oregon which experienced a 17% growth in attendance and a 55% growth in the number of exhibitors from 2010.
- The Engineering Division started a new committee, the Process & Project Engineering Committee, and they are currently looking for volunteers.

For more information on this division contact **Craig McKinney**, [cmckinney@tappi.org](mailto:cmckinney@tappi.org).

## NANOTECHNOLOGY

- Get Involved: TAPPI names Division Chairman, Sean Ireland- Verso Paper; Vice-Chair, Phil Jones - IMERYS; and Secretary, Ted Wegner- USDA Forest Service-Forest Products Laboratory, to lead the Division.
- Learn: The International Nanocellulose Standards Coordination Committee is working to implement the Roadmap for Nanocellulose Standards. Find out how you can benefit from TAPPI's ISO TAG Membership at [www.tappi.org/nano](http://www.tappi.org/nano).
- Stay Informed: Visit [www.rethinktrees.org](http://www.rethinktrees.org) for an eye opening video on the rapidly changing field of Nanotechnology.

For more information on this division contact **Raine Hyde**, [rhyde@tappi.org](mailto:rhyde@tappi.org).

## NET

- The NET Division started their first e-newsletter, Caught in the NET, which is a great source for finding out what is going on in the industry.
- The NET Division awarded the first TAPPI Innovations in Nonwovens Award to Dr. Tony Atala and the Wake Forest Baptist Medical Center for their work using nonwovens scaffolds in regenerative medicine.
- The NET Division created four new committees this year and restructured existing committees to meet the current needs of the industry. Volunteer opportunities exist for the new committees – Wipes, Geosynthetics, Medical and Hygiene, & Division Marketing. The restructured committees are also accepting new volunteers – Building Sciences, Fibers Materials & Characterization, Process & Modeling, Filtration, & Binders and Additives.

For more information on this division contact **Craig McKinney**, [cmckinney@tappi.org](mailto:cmckinney@tappi.org).

## PAPER AND BOARD

- Provided networking and knowledge sharing for global papermakers.
- Organized webinars on topics such as nip dewatering and drying.
- Assembled sessions of relevant, current papermaking topics at PaperCon.
- Maintain standards and tips used by papermakers around the world.

For more information on this division contact **Scott Springmier**, [sspringmier@tappi.org](mailto:sspringmier@tappi.org).

## PIMA

- Gathered the industry's most influential leaders annually at PaperCon's CEO Panel.
- Provided networking and development for the industry's leaders.
- Supported development of future leaders through TAPPI's Young Professionals Committee.

For more information on this division contact **Scott Springmier**, [sspringmier@tappi.org](mailto:sspringmier@tappi.org).

## PLACE

- The Product Resources and Development Team published the TIP for "Guidelines for web conveyance and winding tension levels". Watch for updates on our webinar series at [www.tappiplace.org](http://www.tappiplace.org).
- The Marketing Team has grown and is engaging Student Chapters and Members through Scholarship Programs.
- The Technical Team has created a high quality, technical program for the 2012 PLACE Conference – Find out more at <http://events.tappiplace.org>.

For more information on this division contact **Raine Hyde**, [rhyde@tappi.org](mailto:rhyde@tappi.org).

## PROCESS AND PRODUCT QUALITY

- The Process and Product Quality (P&PQ) Division continues to be the primary resource for over 80% of TAPPI standards – primarily test methods for pulp, paper, and products.
- The Optical Properties Committee is developing a standard for diffuse brightness using D65 illumination.
- The Tissue Properties Subcommittee is working on a caliper method for tissue, paper napkins, facial products, and toweling.

For more information on this division contact **Scott Springmier**, [sspringmier@tappi.org](mailto:sspringmier@tappi.org).

## PROCESS CONTROL

- Continues to provide networking and knowledge sharing for process control experts.
- Hosted and helped organize Control Systems 2012, the first US appearance for this prestigious event.
- Published "Paper Machine Quality Control Systems - Volume 1: Measurement Systems and Product Variability", an important primer for understanding today's measurement technology.

For more information on this division contact **Charles Bohanan**, [cbohanan@tappi.org](mailto:cbohanan@tappi.org).

## PULP MANUFACTURE

- The Pulp Manufacture Division produced a new edition of the book The Bleaching of Pulp, 5th Edition.
- The Pulp Manufacture Division held committee meetings and contributed sessions to the 2011 TAPPI PEERS Conference in Portland, Oregon which experienced a 17% growth in attendance and a 55% growth in the number of exhibitors from 2010.
- The 2011 International Pulp Bleaching Conference was co-located with the TAPPI PEERS Conference in Portland, Oregon and attracted over 170 Pulp Bleaching representing 21 different countries.

For more information on this division contact **Craig McKinney**, [cmckinney@tappi.org](mailto:cmckinney@tappi.org).

# TAPPI MEMBER BENEFITS

## TAPPI INDIVIDUAL MEMBERSHIP

### ► BENEFITS TO YOU

- **BECOME IRREPLACEABLE** - Gain 24/7 access to the latest technical advancements and solutions available in our e-Library.
- **STAY CURRENT** - With the news and information specific to your area of expertise.
- **CONTINUE YOUR PROFESSIONAL DEVELOPMENT** - Take advantage of TAPPI's online and classroom courses.
- **MAKE CONNECTIONS** - Through our Membership Directory, technical committees (more than 100), and world-class events, there are opportunities to get involved.

### ► BENEFITS TO YOUR COMPANY

- **REDUCE COSTS** - Utilize TAPPI's extensive collection of trusted technical information and research.
- **STREAMLINE OPERATIONS AND MAXIMIZE PERFORMANCE** - Ensure products meet industry-recognized best practices and improve production with TAPPI's Standards.
- **IMPROVE EFFICIENCY** - Provide access to one-stop shop for information, technical resources, advice, and support.
- **GIVE BACK TO THE INDUSTRY** - Support TAPPI's efforts to raise awareness and recruit the next generation of industry professionals.

## HEAR WHAT STUDENTS ARE SAYING:

"... thank you for your continued support for all students, like myself, wishing to pursue opportunities in the paper industry. This award will help me achieve my goals toward getting a degree in Paper Engineering and becoming a contributing engineer to the paper industry in the future."

### C. Kick

Western Michigan University

"Your email about TAPPI scholarships made me want to let you know how grateful I am for the 2 years of the Coating and Graphic Arts Division Scholarship that TAPPI has awarded me. I am pleased to announce that I will be graduating cum laude from Clemson University this December. After that, I will be pursuing a co-op position at Packaging Corporation of America in their Mooresville, NC design center. I will be designing POP displays and all levels of packaging using my favorite material: paper."

### Benjamin Halka

Clemson University

## BECOME A TAPPI MEMBER TODAY!

1-800-332-8686 (US), 1-800-446-9431 (Canada),  
+1-770-446-1400 (Worldwide), Fax +1-770-209-7206  
email: [memberconnection@tappi.org](mailto:memberconnection@tappi.org)  
[www.tappi.org/membership](http://www.tappi.org/membership)

## TAPPI AFFILIATE (LIBRARY) MEMBERSHIP

### ► THE SUBSCRIPTION PACKAGE IS EXTENSIVE AND INCLUDES THE FOLLOWING:

1. TAPPI JOURNAL subscription, which includes *Progress in Paper Recycling* (PPR) via email and also via IP authentication to the computers in your library.
2. Access to TAPPI's e-Library and to the TAPPI website. Available in the e-Library are over 20,000 documents, including all articles from TAPPI JOURNAL, other TAPPI periodicals and articles from TAPPI's technical conferences and presentations since 1990. Works prior to 1990, are available upon request.
3. Electronic versions of TAPPI's newsletters which include: Ahead of the Curve, Caught in the Net, Frontline Focus, Over-the-Wire (OTW), OTW - Tissue Edition, PLACE Weekly Wrap-Up, and The Standards and Tips Action Report (STAR).
4. Print compendium of the year's TAPPI JOURNAL (summaries and index)\*
5. Hardbound printed yearbook containing the year's TAPPI JOURNAL articles in their entirety\*.
6. Printed edition of the bimonthly *Paper360*<sup>®</sup>, our industry magazine.

## TAPPI SUSTAINING MEMBERSHIP

### ► WHAT DOES IT MEAN WHEN YOUR COMPANY BECOMES A TAPPI SUSTAINING MEMBER?

That one more "rising star" will receive the funds he or she needs to pursue their educational dreams and eventually blaze new trails of opportunity in our industry. Sustaining Membership dues help support TAPPI scholarship programs which enable the pursuit of personal and professional goals for the next generation of industry greats. As a Sustaining Member, your company has a direct impact on the caliber and quality of those who will serve as future leaders (to date \$7 million has been awarded!).

Your company also receives unprecedented exposure, access to industry-specific knowledge, free registration to two separate conferences of your choice as well as additional attendance discounts throughout the year on conferences, classes and courses, and the opportunity to network with the best and brightest. In addition, TAPPI's unique Member Replacement Policy means uninterrupted access to all benefits for your designated employees.

**Tap into the power – become a Sustaining Member today!**



Visit [www.tappi.org](http://www.tappi.org)



# Membership Application

Please circle: Mr. Ms. Miss Mrs. Dr. Jr. Sr.      Check one:  Male  Female      Source Code: 12PRESS

First Name (Given) \_\_\_\_\_ Middle Initial \_\_\_\_\_ Last Name (Surname) \_\_\_\_\_  
 Job Title \_\_\_\_\_ Company Name \_\_\_\_\_  
 Company Address \_\_\_\_\_  
 City \_\_\_\_\_ State/Province \_\_\_\_\_  
 Zip /Postal Code \_\_\_\_\_ Country \_\_\_\_\_  
 Work Telephone \_\_\_\_\_ Fax \_\_\_\_\_  
 Alternate Telephone \_\_\_\_\_  
 Alternate Address \_\_\_\_\_  
 City \_\_\_\_\_ State/Province \_\_\_\_\_  
 Zip /Postal Code \_\_\_\_\_ Country \_\_\_\_\_  
 Email Address \_\_\_\_\_ (TAPPI does not rent, release or give away email addresses.)  
 Birthdate (mm/dd/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_      What is your preferred address for mailings from TAPPI?  Company  Home

Is another TAPPI member referring you? If so, please list their name: \_\_\_\_\_

### Membership (12 full months of membership):

- Professional – 1 Year *Individual working in the pulp, paper and converting industry*..... US \$174
- Professional Members Only - Join now for 2 years and save \$20 ..... US \$328
- Professional Members Only - Join now for 3 years and save \$42 ..... US \$480
- Young Professional – *Individual, 29 years of age or younger, working in the pulp, paper and converting industry* ..... US \$119
- Affiliate – *Organization interested in the purposes of TAPPI; a university library or government agency*..... US \$355
- Student and 1<sup>st</sup> year on job – *Full-time student and candidate for a degree in an accredited science or engineering school; Must be current TAPPI Student Member to qualify for the 1<sup>st</sup> year on the job rate; \* limited to 7 years without special permission* ..... US \$35
- Retired - *Individual retired from working in the pulp, paper and converting industry*..... US \$92
- Sustaining Company – *Organization interested in supporting the purposes of TAPPI*..... US \$2,500

### Paper360° and TAPPI JOURNAL (free with membership)

- Indicate here if you would like to receive *Paper360°* (10 issues yearly; official magazine of TAPPI and PIMA) and *TAPPI JOURNAL* (monthly online publication and end of year printed summary edition and index).
  - US \$14 postage fee applies for all non-U.S. members wishing to receive the *TAPPI JOURNAL* year end printed summary.....US \$ \_\_\_\_\_
  - Progress in Paper Recycling (PPR) is officially now part of *TAPPI JOURNAL*. PPR topics will be highlighted in *TJ* in two or three issues per year.

### Additional Options (receive substantial discounts, if chosen when joining)

- TAPPI Standards & Technical Information Papers (TIPs) Individual Online License; US \$125 (50% off regular price)      US \$ \_\_\_\_\_  
 Online unlimited access to the latest TAPPI Standards & TIPs for one individual member's use. Online license must be renewed each year.
- Corrugated Today: Official Magazine of TAPPI's Corrugated Packaging Division (bi-monthly) US \$36      US \$ \_\_\_\_\_
  - Sales tax on additional options will be added for residents of Georgia, Illinois, Maryland, and Ohio. Contact TAPPI for exact total.      US \$ \_\_\_\_\_

TAPPI Foundation Contribution (funds donated will go to TAPPI & PIMA Student Programs)  US\$25  US\$50  US\$100  Other US \$ \_\_\_\_\_

**Communication Permission:** TAPPI may use my contact information to communicate about products or services TAPPI believes may be of value and comply with government regulations. I hereby give TAPPI, TAPPI's business associates, the TAPPI Foundation, and TAPPI & PIMA's Local Sections written permission to contact me for the above stated purposes and to communicate with me via (check as applicable)  fax and/or  email for those purposes (note: we do not release emails to third parties).  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

- Yes, I am interested in learning more about TAPPI volunteer opportunities!
- I would like to be identified as PIMA. PIMA is the Paper Industry Management Division of TAPPI. PIMA members are now PIMA and TAPPI members.

### METHOD OF PAYMENT

- TOTAL DUE** in US currency (Purchase orders cannot be accepted for membership dues)      US \$ \_\_\_\_\_
- Payment by Cheque: Amount US \$ \_\_\_\_\_ is enclosed. Cheque number: \_\_\_\_\_
  - Payment by Credit Card:  AMEX  Diner's Club  Discover  VISA  MasterCard
    - Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_
    - Cardholder's Name \_\_\_\_\_ Authorized Signature \_\_\_\_\_
  - Payment by Wire Transfer (Please contact TAPPI for instructions) Date of Transfer: \_\_\_\_\_ Amount US \$ \_\_\_\_\_

**NOTE:** TAPPI is a registered 501c3 not-for-profit association. Professional society membership dues are a legitimate business expense in general. All except US\$50 may also be considered as a charitable donation under US law if the business deduction is not used.

Submit application with payment to: TAPPI Inc. • P.O. Box 933644, Atlanta GA 31193-3644 USA  
 If you have questions, please contact TAPPI at 1-800-332-8686 (US), 1-800-446-9431 (Canada), + 1-770-446-1400 or + 1-770-209-7206 (Fax),  
 Email: [memberconnection@tappi.org](mailto:memberconnection@tappi.org) or online at [www.tappi.org](http://www.tappi.org)

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Turn to one (or more) of the TCC Consultants to Get Unique Business Solutions.

Some of these unique business solutions include:

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“...providing consulting services.. **improve paper machine performance.**”

“... developing “**Game-changing**” strategies for industrial suppliers to deliver unique competitive advantages to their core customers.”

“...offering clients a **unique perspective** of both the corporate executive and the federal regulator.”

“...**providing solutions** for the corrugated industry, utilizing 36 years of experience.”



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TCC Consultants  
(from top left):  
Bob Harrison,  
Dick Reese, Tom  
Dunn, Dan Dieck,  
Bimal Khandelwal,  
Kathleen Bennett,  
and Randy Phares.



# Command Central for Cellulose and Renewable Nanomaterial Knowledge

LEARN. GET INVOLVED. STAY INFORMED.



## LEARN.

**CELLULOSE** – the most abundant natural polymer in the world – has an inherent nanocrystalline structure. This renewable, sustainably-grown biopolymer is being studied and commercialized as it possesses unique and exciting properties:

**BIREFRINGENT & LIQUID CRYSTALLINITY** – can be used to produce color films without pigments

**HIGH ELASTIC MODULUS** – as stiff as steel

**HIGH TENSILE STRENGTH** – 10X stronger than steel

**LOW THERMAL EXPANSION** – 100x lower than steel

**TRANSPARENT** – produce films with 80-90% transparency

**BARRIER PROPERTIES** – control of oxygen transfer

**HIGHLY BIODEGRADABLE**

Learn about unique applications for cellulose and other renewable nanomaterials. Applications extend from traditional forest-based products like pulp, paper and building materials, to exciting applications in areas such as coatings, plastics, digital displays, military body armors, and medical implants, among others.



## STAY INFORMED.

- Save the date! Attend the 2012 TAPPI International Conference on Nanotechnology for Renewable Materials, June 5-7, 2012, Hyatt Regency Montréal, Montréal, Québec, CANADA. Learn more at [www.tappinano.org](http://www.tappinano.org).
- TAPPI PRESS offers the resources you need including detailed technical presentations, conference proceedings, and the Roadmap for the Development of International Standards for Nanocellulose



## GET INVOLVED.

- Join TAPPI's International Nanotechnology Division to network with scientists and professionals active in this field
- Participate in development of standards, for cellulose nanomaterials, or for other nanofibers



## MEMBERSHIP HAS ITS BENEFITS.

TAPPI members receive reduced conference registration rates and member pricing on TAPPI PRESS products.

LEARN MORE AT [WWW.TAPPI.ORG/NANO](http://WWW.TAPPI.ORG/NANO).

## Coming Together for Knowledge and Networking

The TAPPI PEERS Conference is designed to answer the most pressing business and technical questions faced by pulp and paper companies as they manage raw materials, assets, regulatory requirements and production assets.



With multiple focused tracks and technical sessions, the TAPPI PEERS Conference will offer peer-reviewed papers, expert speakers, exclusive networking opportunities and new technologies that can help mills optimize operations.

A call for presentations, program updates, registration and hotel information will be available at:

[tappipeers.org](http://tappipeers.org)

**Two Events  
One Great  
Opportunity**

**IBBC  
2012**

**International Bioenergy & Bioproducts Conference**

October 17-19, 2012  
Savannah, Georgia USA

No matter how you calculate it,  
**IBBC=BioIQ<sup>n</sup>**

TAPPI's **International Bioenergy and Bioproducts Conference** will focus on technical advancements and commercialization of bioconversion technologies that leverage the forest products manufacturing infrastructure.

The conference will include technical presentations, expert panels, case studies, and reports from projects that address:

- Feedstock and harvesting improvements to increase yield and quality of biomass
- Bioelectricity using combined heat and power (CHP)
- Bioconversion technologies for wood and biomass
- Production of chemicals and transportation fuels from wood and biomass
- Policies and incentives for bioconversion projects

TAPPI's **International Bioenergy and Bioproducts Conference** is co-located with the **2012 TAPPI PEERS Conference**

Program • Speakers • Updates

[www.tappi.org/ibbc12](http://www.tappi.org/ibbc12)

**TAPPI**

# REFERENCE SECTION

TITLE	ITEM NUMBER	MEMBER PRICE	LIST PRICE
12TH EUROPEAN PLACE CONFERENCE PROCEEDINGS-2009	EUROPLACE CD-09	\$74.00	\$111.00
13TH EUROPEAN PLACE CONFERENCE PROCEEDINGS-2010	EUROPLACECD-11	\$111.00	\$74.00
2007 TAPPI SALARY SURVEY	SALARY-07	\$140.00	\$196.00
2009 FBA/TAPPI PRODUCTIVITY AND WASTE SURVEY	PWS09	\$450.00	\$600.00
2009 SAFE TYFIRST DVD - ENGLISH VERSION	09SAFEDVD	\$395.00	\$495.00
2009 SAFETYFIRST DVD - VERSIÓN EN ESPAÑOL	09SAFEDVDS	\$395.00	\$495.00
2010 STATE OF THE GLOBAL PAPER & FOREST PRODUCTS INDUSTRY REPORT	RPTOUTLOOK-H	\$445.00	\$670.00
8 GREATEST MISTAKES NEW MANAGERS MAKE	10-8GREAT	\$20.00	\$25.00
<b>A</b>			
A UNIFIED THEORY OF REFINING PULP AND PAPER TECHNOLOGY SERIES	0101JT06	\$19.00	\$19.00
ABECEDARIO DE PULPA Y PAPEL (PULP AND PAPER PRIMER), SPANISH TRANSLATION	0101R110S	\$13.00	\$19.00
ACOUSTIC EMISSION NONDESTRUCTIVE EVALUATION OF YANKEE DRYERS	0101R208	\$73.00	\$109.00
ADVANCED COATING 2008 CONFERENCE PROCEEDINGS BOOK	ADCTG-08	\$149.00	\$198.00
ADVANCED COATING FUNDAMENTALS SYMPOSIUM CD-ROM, 2010	ADCTGCD-10	\$74.00	\$111.00
ADVANCED COATING FUNDAMENTALS SYMPOSIUM PROCEEDINGS, 2010	ADCTGPRINT-10	\$149.00	\$198.00
ADVANCES IN LIGNOCELLULOSICS CHARACTERIZATION	0101R280	\$118.00	\$177.00
AN ANTHOLOGY OF FIBER RECYCLING - FROM TAPPI CONFERENCES (1997 - 2010) AND THE TAPPI RECYCLING SYMPOSIUM (1993 - 2000)	RECSYM-CD	\$145.00	\$275.00
ANILOX ROLL-HEART OF THE FLEXO PROCESS, SECOND EDITION	0101R322	\$110.00	\$135.00
ANTHRAQUINONE PULPING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS	0101R269	\$93.00	\$140.00
ART AND SCIENCE OF CORRUGATOR SCHEDULING BY MANUAL AND COMPUTER METHODS	0638CORRS	\$85.00	\$94.00
ASTM STANDARDS AND OTHER DOCUMENTS RELATED TO PERFORMANCE TESTING OF SHIPPING CONTAINERS, FOURTH EDITION	08ASTMSC	\$135.00	\$149.00
<b>B</b>			
BINDER MIGRATION IN PAPER AND PAPERBOARD COATINGS	0101R203	\$50.00	\$75.00
BIOCATALYSIS AND BIOENERGY	11BIOCAT	\$140.00	\$160.00
BIODEGRADABLE POLYMER BLENDS AND COMPOSITES FROM RENEWABLE RESOURCES	10BIODEGRAD	\$105.00	\$135.00
BIOFUELS AND ENERGY:OUTLOOK, EFFICIENCY AND PRODUCTION: PRESENTATIONS FROM THE 2006 TAPPI FORUM ON ENERGY & THE 2007 TAPPI INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY CD-ROM	ENERGYCD-08	\$100.00	\$137.00
BIOMASS AND ALTERNATE FUEL SYSTEMS: AN ENGINEERING AND ECONOMIC GUIDE	10BIOALT	\$70.00	\$89.00
BIOMASS GASIFICATION AND PYROLYSIS	11PYROL	\$125.00	\$135.00
BIOMASS TO BIOFUELS: STRATEGIES FOR GLOBAL INDUSTRIES	11BIOFUELS	\$83.00	\$90.00
BIOMASS TO RENEWABLE ENERGY PROCESSES	09BIOMASS	\$100.00	\$130.00
BLACKWELL HANDBOOK OF STRATEGIC MANAGEMENT	10STRATEGIC	\$52.00	\$59.00
BLEACHING (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-07	\$78.00	\$119.00
BLEACHING (MAKING PULP & PAPER SERIES)	MPP-07WEB	\$39.00	\$39.00
BLEACHING OF PULP	0101R331	\$0.00	\$0.00
BUILDING A KNOWLEDGE-DRIVEN ORGANIZATION	08BUCKMAN	\$24.00	\$35.00
<b>C</b>			
CALCULATION FOR TIP 0108040210 SOFTWARE	EZSHELL	\$1,699.00	\$1,869.00
CALIBRATED SIZE ESTIMATION CHART (TRANSPARENCY)	0109DIRTCAL	\$300.00	\$350.00
CALIBRATION PLATES TO BE USED WITH TEST METHOD 563	0109CALIB	\$207.00	\$309.00
CAPS (PIMA) - FOREST	CAPG-PIM	\$21.00	\$25.00
CAPS (PIMA) - STONE	CAPS-PIM	\$21.00	\$25.00
CAPS (TAPPI) - FOREST	CAPG-TAP	\$21.00	\$25.00
CAPS (TAPPI) - STONE	CAPS-TAP	\$21.00	\$25.00
CHEMICAL PROCESSING AIDS IN PAPERMAKING: A PRACTICAL GUIDE	0101R192	\$80.00	\$119.00
CHEMICAL RECOVERY & ENERGY PRODUCTION (MAKING PULP & PAPER SERIES CD-ROM)	MPP-05	\$78.00	\$119.00
CHEMICAL RECOVERY & ENERGY PRODUCTION (MAKING PULP & PAPER SERIES)	MPP-05WEB	\$39.00	\$39.00
CHEMICAL RECOVERY IN THE ALKALINE PULPING PROCESSES, REVISED EDITION	0102B046	\$75.00	\$112.00
CHEMISTRY OF MODERN PAPERMAKING	11CHEM	\$159.00	\$179.00
COATING MATERIALS: PIGMENTS, BINDERS SHORT COURSE NOTES CD-ROM, 2005	CMCD-05	\$57.00	\$83.00
COATING PROCESSES	0102B057	\$103.00	\$155.00
COLLOID CHEMISTRY OF PAPERMAKING MATERIALS	0101R306	\$62.00	\$93.00
CONCRETE HANDBOOK: PRACTICAL GUIDE FOR PROTECTING AND IMPROVING THE DURABILITY OF CONCRETE IN PULP AND PAPER MILLS	0101R289	\$28.00	\$38.00
CONDITION MONITORING STANDARDS, VOLUME 1	10CMS1	\$175.00	\$195.00
CONDITION MONITORING STANDARDS, VOLUME 2	10CMS2	\$175.00	\$195.00
CONDITION MONITORING STANDARDS, VOLUME 3	10CMS3	\$175.00	\$195.00
CONDITION MONITORING STANDARDS, VOLUME 4	10CMS4	\$175.00	\$195.00
CONQUERING INNOVATION FATIGUE: OVERCOMING THE BARRIERS TO PERSONAL AND CORPORATE SUCCESS	10INNOV	\$32.00	\$39.00
CONSUMER GUIDE TO DIFFERENTIAL PRESSURE FLOW TRANSMITTERS	08DPFT	\$250.00	\$275.00
CONSUMER GUIDE TO ULTRASONIC AND CORRELATION FLOWMETERS	08UCF	\$250.00	\$275.00
CORROSION OF PLASTICS AND RUBBER IN PROCESS EQUIPMENT - EXPERIENCES FROM THE PULP AND PAPER INDUSTRY	0101R206	\$75.00	\$112.00
CORRUGATED ADHESIVES PREPARATION, FIFTH EDITION	0101R301	\$87.00	\$136.00
CORRUGATED BOXSHOP PRACTICES	0638CBP	\$94.00	\$103.00

TITLE	ITEM NUMBER	MEMBER PRICE	LIST PRICE
CORRUGATED CONFERENCE PROCEEDINGS CD-ROM, 2009	CORRCD-09	\$74.00	\$111.00
CORRUGATED CONFERENCE PROCEEDINGS CD-ROM, 2011	CORRCD-11	\$74.00	\$111.00
CORRUGATED CONTAINER PLANT HANDBOOK	0101R258	\$83.00	\$124.00
CORRUGATED CONTAINERS MANUFACTURING PROCESS	0101R281	\$37.00	\$185.00
CORRUGATED CONTAINERS WASTE MANAGEMENT COMPLETE SERIES	CCWASTE-SET	\$1,400.00	\$2,700.00
CORRUGATED CONTAINERS WASTE MANAGEMENT SERIES:DVD 1	CCWASTE-DVD1	\$495.00	\$695.00
CORRUGATED CONTAINERS WASTE MANAGEMENT SERIES:DVD 2	CCWASTE-DVD2	\$495.00	\$695.00
CORRUGATED CONTAINERS WASTE MANAGEMENT SERIES:DVD 3	CCWASTE-DVD3	\$495.00	\$695.00
CORRUGATED CONTAINERS WASTE MANAGEMENT: WASTE DUE TO WARP CD-ROM	CCWASTE-CD	\$113.00	\$169.00
CORRUGATED CROSSROADS: A REFERENCE GUIDE FOR THE CORRUGATED CONTAINERS INDUSTRY	0101R254	\$82.00	\$121.00
CORRUGATED SEGMENTATION STUDY AND OPPORTUNITY ASSESSMENT	RPTCORR-09	\$4,700.00	\$4,900.00
CORRUGATING DEFECT / REMEDY MANUAL, SIXTH EDITION	0101R153	\$87.00	\$130.00
CORRUGATING DEFECT/REMEDY CD-ROM, SIXTH EDITION	0101R153CD	\$87.00	\$130.00
CORRUGATING DEFECT/REMEDY MANUAL, SIXTH EDITION (BOOK AND CD-ROM)	0101R153SET	\$155.00	\$230.00
CORRUGATOR BONDING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS, SECOND EDITION	0101R265	\$19.80	\$30.60
CORRUGATOR MAJOR COMPONENTS: MAINTENANCE AND OPERATING GUIDELINES, SECOND EDITION	0101R226	\$62.00	\$93.00
CORRUGATOR MONITOR	0101R285	\$25.00	\$38.00
CORRUGATOR ROLL WEAR MEASUREMENT	0101R261	\$25.00	\$38.00
COST SAVING STRATEGIES IN PAPERMAKING CHEMISTRY	0101R325	\$150.00	\$215.00
CRATES, CARTONS AND CORRUGATED BOARD: HANDBOOK OF PAPER AND WOOD PACKAGING TECHNOLOGY	08HPWPT	\$109.00	\$150.00
CRITICAL THINKING IN CONVERTING	0101R302	\$81.00	\$121.00
CSR STRATEGIES:CORPORATE SOCIAL RESPONSIBILITY FOR A COMPETITIVE EDGE IN EMERGING MARKETS	10CSR	\$29.00	\$35.00
<b>D</b>			
DICTIONARY OF PAPER CD-ROM, FIFTH EDITION	0102B058CD	\$75.00	\$112.00
DICTIONARY OF PAPER, FIFTH EDITION	0102B058	\$75.00	\$112.00
DIRT ESTIMATION CHART	0109DIRT	\$36.00	\$53.00
DRYING - PAPERMAKING PART 2	0202FIN09	\$42.00	\$42.00
DRYING OPERATION I, THE PRACTICAL PAPERMAKING CD-ROM SERIES	PP09CD	\$114.00	\$173.00
DRYING OPERATION II, THE PRACTICAL PAPERMAKING CD-ROM SERIES	PP10CD	\$114.00	\$173.00
DYE-BREAKING AGENTS DATABASE	0101R264	\$50.00	\$75.00
<b>E</b>			
ELEMENTAL CHLORINE FREE BLEACHING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS	0101R283	\$83.00	\$124.00
ENERGY OPPORTUNITIES IN THE NORTH AMERICAN PULP AND PAPER INDUSTRY	RPTENERGY-09	\$1,755.00	\$1,950.00
ENGINEERING, PULPING AND ENVIRONMENTAL CONFERENCE PROCEEDINGS CD-ROM, 2008	EPECD-08	\$74.00	\$111.00
ENGINEERING, PULPING AND ENVIRONMENTAL CONFERENCE PROCEEDINGS CD-ROM, 2009	EPECD-09	\$74.00	\$111.00
ENSURING WORKPLACE COMPETENCE: DEVELOPING TRAINING AND CERTIFICATION MATERIALS FOR TODAY'S EMPOWERED WORKFORCE	0101R256	\$70.00	\$103.00
ENVIRONMENTAL CONTROL	0202FIN19	\$42.00	\$42.00
ENVIRONMENTAL REGULATIONS FOR PRINTERS	08ERP	\$385.00	\$424.00
EXCITING WORLD OF FLEXOGRAPHY CD-ROM	WPL-EWF	\$75.00	\$83.00
EXTRUSION COATING MANUAL, FOURTH EDITION	0102B065	\$93.00	\$140.00
<b>F</b>			
FIFTH DISCIPLINE: THE ART & PRACTICE OF THE LEARNING ORGANIZATION	08FIFTH	\$20.00	\$30.00
FIFTH INTERNATIONAL CONFERENCE ON FLEXIBLE PACKAGING PROCEEDINGS CD-ROM-ENGLISH VERSION	08CETEA-CDE	\$74.00	\$111.00
FIFTH INTERNATIONAL CONFERENCE ON FLEXIBLE PACKAGING PROCEEDINGS CD-ROM-PORTUGUESE VERSION	08CETEA-CDP	\$74.00	\$111.00
FILM EXTRUSION MANUAL, SECOND EDITION	0101R313	\$137.00	\$205.00
FINISHING - PAPERMAKING PART 3	0202FIN10	\$42.00	\$42.00
FLEXIBLE PACKAGING SYMPOSIUM PROCEEDINGS CD-ROM, 2009	FLEXPKGC-09	\$74.00	\$111.00
FLEXOGRAPHIC TERMS: A GLOSSARY OF TERMS USED IN FLEXOGRAPHIC PRINTING ON CORRUGATED BOARD	0101R279	\$26.25	\$42.50
FOCUS ON QUALITY	0101R158	\$25.00	\$38.00
FOREST PRODUCTS CHEMISTRY	0202FIN03	\$42.00	\$42.00
FOREST RESOURCES AND SUSTAINABLE MANAGEMENT	0202FIN02	\$42.00	\$42.00
FOURDRINIER OPERATION - PRACTICAL PAPERMAKING CD-ROM SERIES	PP06CD	\$114.00	\$173.00
FUNCTIONAL ANALYSIS OF LIGNINS AND THEIR DERIVATIVES	0101R194	\$54.00	\$78.00
FUNDAMENTALS OF THE KRAFT RECOVERY PROCESS	0101R327	\$171.00	\$237.00
FUTURE OF CORRUGATED BOARD PACKAGING TO 2015	RPTCORR2015	\$4,640.00	\$5,800.00
FUTURE OF DIGITAL PRINTING PAPERS TO 2013	RPTDPRINT13	\$5,320.00	\$5,600.00
FUTURE OF DIGITAL PRINTING TO 2018	RPTDPRINT18	\$5,320.00	\$5,600.00
FUTURE OF FLUSHABLE AND BIODEGRADABLE WIPES TO 2013	RPTFWIPE13	\$5,320.00	\$5,600.00
FUTURE OF FOLDING CARTONS TO 2012	RPTFOLD12	\$4,180.00	\$4,400.00
FUTURE OF FUNCTION AND BARRIER COATINGS FOR PAPER AND BOARD	RPTBC	\$5,600.00	\$5,320.00
FUTURE OF GLOBAL TRANSIT PACKAGING TO 2013	RPTTRANS13	\$5,320.00	\$5,600.00
FUTURE OF INKJET PRINTING TO 2013	RPTINKJET13	\$5,320.00	\$5,600.00
FUTURE OF PAPER AND BOARD IN CENTRAL AND EASTERN EUROPE-MARKET FORECASTS TO 2014	RPTCE	\$5,600.00	\$5,320.00
FUTURE OF PAPER AND BOARD PACKAGING IN BRIC TO 2013	RPTBRIC13	\$5,320.00	\$5,600.00

TITLE	ITEM NUMBER	MEMBER PRICE	LIST PRICE
FUTURE OF PRINTED BUSINESS COMMUNICATIONS - MARKET FORECASTS TO 2014	RPTBUSINESS	\$5,320.00	\$4,760.00
FUTURE OF PRINTING IN LATIN AMERICA TO 2013	RPTLA13	\$5,320.00	\$5,600.00
FUTURE OF SPECIALTY PAPERS TO 2013	RPTSPAPER13	\$5,320.00	\$5,600.00
<b>G</b>			
GLOSSARY OF REPROGRAPHY AND NON-IMPACT PRINTING TERMS FOR THE PAPER AND PRINTING INDUSTRIES	0101R164	\$17.00	\$25.00
GUIDELINES FOR THE BUYING AND SELLING OF USED CORRUGATED MACHINERY	0101R210	\$24.00	\$34.00
GUIDELINES FOR THE PRODUCTION & CONVERTING OF LITHOGRAPHIC TOP SHEETS	08GATFG	\$10.00	\$11.00
GUIDELINES FOR THE SAFE OPERATION OF STEAM HEATED PAPER MACHINE DRYERS	0101R250	\$37.00	\$54.00
GUIDELINES FOR THE SAFE OPERATION OF YANKEE DRYERS, SECOND EDITION, REVISED AND UPDATED	0101R244	\$24.00	\$36.00
<b>H</b>			
HANDBOOK FOR PULP AND PAPER TECHNOLOGISTS ( THE SMOOK BOOK ) THIRD EDITION	0202SMOOK	\$56.00	\$75.00
HANDBOOK FOR PULP AND PAPER TECHNOLOGISTS, FIRST EDITION (SPANISH)	0102B055	\$85.00	\$127.00
HANDBOOK OF PULP & PAPER TECHNOLOGIST AND HANDBOOK OF PULP AND PAPER TERMINOLOGY COMPLETE SET	0202SMSET	\$115.00	\$153.00
HANDBOOK OF PULP & PAPER TERMINOLOGY: A GUIDE TO INDUSTRIAL AND TECHNOLOGICAL USAGE, SECOND EDITION	0202TERM	\$69.00	\$69.00
HEADBOX, THE - PRACTICAL PAPERMAKING CD-ROM SERIES	PP05CD	\$114.00	\$173.00
HEAT SEALING TECHNOLOGY AND ENGINEERING FOR PACKAGING	10HEATSTE	\$145.00	\$175.00
HIGH PURITY PULPS: TESTING, ACCESSIBILITY AND REACTIVITY	0101R309	\$31.00	\$52.00
HOW TO WRITE WHAT PEOPLE LIKE TO READ	0101R235	\$14.00	\$19.00
<b>I</b>			
IMPROVEMENT BASED ISO-9000 QUALITY SYSTEM IMPLEMENTATION PLANS FOR PACKAGING PLANTS	08ISOIP	\$60.00	\$66.00
INDUSTRIAL ENERGY HARVEST: MANAGING ENERGY FROM THE TOP DOWN, THE	08INDENERGY	\$40.00	\$40.00
INDUSTRIAL ENVIRONMENTAL CONTROL - PULP AND PAPER INDUSTRY, THIRD EDITION	0101R296	\$62.00	\$93.00
INDUSTRIAL ENVIRONMENTAL CONTROL PULP AND PAPER INDUSTRY, SECOND EDITION, (SPANISH)	0102B056S	\$87.00	\$130.00
INT'L BIOENERGY & BIOPRODUCTS CONFERENCE PROCEEDINGS CD-ROM, 2009	BIOCD-09	\$74.00	\$111.00
INT'L BIOENERGY AND BIOPRODUCTS CONFERENCE CD-ROM PROCEEDINGS, 2008	BIOCD-08	\$74.00	\$111.00
INT'L CHEMICAL RECOVERY CONFERENCE PROCEEDINGS BOOK SET, 2010	ICRCSET-10	\$125.00	\$174.00
INT'L CHEMICAL RECOVERY CONFERENCE PROCEEDINGS CD-ROM, 2010	ICRC10-CD	\$74.00	\$111.00
INT'L CONFERENCE ON NANOTECHNOLOGY FOR RENEWABLE MATERIALS PROCEEDINGS CD-ROM, 2011	11NAN OCD	\$100.00	\$137.00
INT'L CONFERENCE ON NANOTECHNOLOGY FOR THE FOREST PRODUCTS INDUSTRY, 2009	09NAN OCD	\$100.00	\$137.00
INT'L CONFERENCE ON NANOTECHNOLOGY FOR THE FOREST PRODUCTS INDUSTRY, 2010	10NAN OCD	\$100.00	\$137.00
INT'L MECHANICAL PULPING CONFERENCE, 2007	IMPCCD-07	\$74.00	\$111.00
INT'L NONWOVENS TECHNICAL CONFERENCE PROCEEDINGS CD-ROM, 2009	NON-09	\$130.00	\$175.00
INTRODUCTION TO BIOFUELS	11INTBIO	\$100.00	\$120.00
INTRODUCTION TO NONWOVENS	0101R271	\$28.00	\$42.00
<b>J</b>			
JOURNAL OF APPLIED PACKAGING RESEARCH - ELECTRONIC ISSUE	JAPR_ELEC	\$195.00	\$295.00
JOURNAL OF APPLIED PACKAGING RESEARCH - PRINT EDITION	JAPR_PRINT	\$223.00	\$319.00
<b>K</b>			
KRAFT PULPING	0101R171	\$49.30	\$73.95
KRAFT PULPING (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-04	\$78.00	\$119.00
KRAFT PULPING (MAKING PULP & PAPER SERIES)	MPP-04WEB	\$39.00	\$39.00
KRAFT RECOVERY BOILERS	0102B064	\$93.00	\$140.00
KRAFT RECOVERY COURSE PROCEEDINGS CD-ROM, 2007	KRAFTCD-07	\$74.00	\$100.00
<b>L</b>			
LANGUAGE OF BUSINESS, VOLUME II	0101R282	\$25.00	\$38.00
LEAN MAINTENANCE	08LEANMAIN	\$42.00	\$56.00
LIFE CYCLE INVENTORY ANALYSIS USER'S GUIDE: ENHANCED METHODS AND APPLICATIONS FOR THE PRODUCTS OF THE FOREST INDUSTRY	08LCIA	\$10.00	\$11.00
LIGNIN & LIGNANS ADVANCES IN CHEMISTRY	11LIGNIN	\$158.00	\$170.00
LUBRICATION ENGINEER'S MANUAL, THE	0101R304	\$50.00	\$75.00
<b>M</b>			
MAINTENANCE AND CALIBRATION MANUALS FOR ROTARY DIECUTTERS AND FLEXO FOLDER-GLUERS	0101R245	\$49.00	\$73.00
MAINTENANCE MANAGEMENT MEGA COMBO	10MMBSET	\$1,350.00	\$1,510.00
MAINTENANCE PAINTING OF STEEL STRUCTURES IN PULP AND PAPER MILLS-A PROGRAM APPROACH FOR MAXIMUM COST EFFECTIVENESS	0101R300	\$31.00	\$50.00
MAKING PULP AND PAPER SERIES (ALL 15 CD-ROMS)	MPP-SET	\$979.00	\$1,545.00
MAKING PULP AND PAPER SERIES (ALL 15 WEB-BASED MODULES)	MPP-SETWEB	\$535.00	\$535.00
MANEJO DE DESPERDICIO DE CONTENEDORES CORRUGADOS - SERIE COMPLETA	CCWASTESP-SET	\$1,260.00	\$2,430.00
MANEJO DE DESPERDICIO DE CONTENEDORES CORRUGADOS DVD 1 - VERSIÓN EN ESPAÑOL	CCWASTESP-DVD1	\$495.00	\$695.00
MANEJO DE DESPERDICIO DE CONTENEDORES CORRUGADOS DVD 2 - VERSIÓN EN ESPAÑOL	CCWASTESP-DVD2	\$495.00	\$695.00
MANEJO DE DESPERDICIO DE CONTENEDORES CORRUGADOS DVD 3 - VERSIÓN EN ESPAÑOL	CCWASTESP-DVD3	\$495.00	\$695.00
MANUAL DE DEFECTOS/REMEDIOS EN LA CORRUGACION, SEXTA EDICION	0101R153CDS	\$87.00	\$130.00
MATERIALS, CORROSION PREVENTION, AND MAINTENANCE	0202FIN15	\$42.00	\$42.00

TITLE	ITEM NUMBER	MEMBER PRICE	LIST PRICE
MECHANICAL AND CHEMI-MECHANICAL PULPING (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-06	\$78.00	\$119.00
MECHANICAL AND CHEMI-MECHANICAL PULPING (MAKING PULP & PAPER SERIES)	MPP-06WEB	\$39.00	\$39.00
MECHANICAL PULPING	0202FIN05	\$42.00	\$42.00
MECHANICAL PULPS: FROM WOOD TO BLEACHED PULP	0101R278	\$96.00	\$143.00
MECHANICAL SEALS: GUIDELINES FOR THE PULP AND PAPER INDUSTRY	0101R223	\$25.00	\$38.00
MECHANICS OF ROLLERS, THE	0101R255	\$75.00	\$112.00
MECHANICS OF ROLLERS - JAPANESE TRANSLATION	0101R255J	\$72.00	\$108.00
MECHANICS OF WEB HANDLING, THE	0101R273	\$75.00	\$112.00
MECHANICS TRILOGY	0101ROISUM	\$243.00	\$362.00
MICRO AND NANOPARTICLES IN PAPERMAKING	0101R312	\$165.00	\$258.00
MILL-WIDE PROCESS CONTROL & INFORMATION SYSTEMS	0202MS10	\$70.00	\$70.00
MONOGRAPH ON MICROBIOLOGY OF PAPERMAKING SYSTEMS	0101R323	\$110.00	\$151.00
<b>N</b>			
NANOTECHNOLOGY 2010 BIOFUELS, RENEWABLE ENERGY, COATINGS AND COMPACT MODELING;			
TECHNICAL PROCEEDINGS OF THE 2010 NSTI NANOTECHNOLOGY CONFERENCE AND EXPO (VOLUME 3)	11NANO2010V3	\$152.00	\$190.00
NANOTECHNOLOGY CONFERENCE CD-ROM, 2006 TAPPI	NANOC0-06	\$57.00	\$83.00
NANOTECHNOLOGY FOR THE FOREST PRODUCT INDUSTRY VISION AND TECHNOLOGY ROAD MAP	0101R314	\$62.00	\$73.00
NANOTECHNOLOGY HEALTH AND ENVIRONMENTAL RISKS	11NANOENV	\$42.00	\$52.00
NANOTECHNOLOGY UNDERSTANDING SMALL SYSTEMS	11NANOSMALL	\$80.00	\$100.00
NETINC CONFERENCE PROCEEDINGS CD-ROM, 2011	11NONCD	\$100.00	\$137.00
NONWOVENS ANTHOLOGY CD: BINDERS AND ADDITIVES	NWANTHCD-08	\$75.00	\$100.00
NONWOVENS INDUSTRY OUTLOOK IN INDIA	RPTINDIA07	\$2,900.00	\$4,000.00
NONWOVENS: THEORY, PROCESS, PERFORMANCE, AND TESTING	0101R199	\$86.00	\$128.00
NORMAS Y METODOS DE CONTENEDORES CORRUGADOS (SPANISH CORRUGATED CONTAINERS TEST METHODS)	0101R292	\$40.00	\$40.00
<b>O</b>			
OVERVIEW PAPER AND WOOD (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-01	\$78.00	\$119.00
OVERVIEW PAPER AND WOOD (MAKING PULP & PAPER SERIES)	MPP-01WEB	\$39.00	\$39.00
<b>P</b>			
PAPER CLIPS POWER POINT SHOW	PE-CLIPS	\$10.00	\$10.00
PAPER COATING ADDITIVES	0102B060	\$61.00	\$91.00
PAPER COATING VISCOELASTICITY AND ITS SIGNIFICANCE IN BLADE COATING	0101R259	\$31.00	\$48.00
PAPER MACHINE DRY END, THE (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-13	\$78.00	\$119.00
PAPER MACHINE DRY END, THE (MAKING PULP & PAPER SERIES)	MPP-13WEB	\$39.00	\$39.00
PAPER MACHINE DYNAMIC FOUNDATION DESIGN	0101R239	\$38.00	\$56.00
PAPER MACHINE QUALITY CONTROL SYSTEMS - VOLUME 1: MEASUREMENT SYSTEMS AND PRODUCT VARIABILITY	0101R328	\$135.00	\$205.00
PAPER MACHINE STEAM AND CONDENSATE SYSTEMS, FIFTH EDITION	0101R096	\$31.00	\$50.00
PAPER MACHINE WET END, THE (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-12	\$78.00	\$119.00
PAPER MACHINE WET END, THE (MAKING PULP & PAPER SERIES)	MPP-12WEB	\$39.00	\$39.00
PAPER MACHINE WET PRESS MANUAL, FOURTH EDITION	0102B042	\$83.00	\$124.00
PAPER MILL OVERVIEW (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-09	\$78.00	\$119.00
PAPER MILL OVERVIEW (MAKING PULP & PAPER SERIES)	MPP-09WEB	\$39.00	\$39.00
PAPER RECYCLING VOL. II, DEINKING & BLEACHING	08PRC2	\$93.00	\$110.00
PAPER RECYCLING VOL. III, PROCESS TECHNOLOGY	08PRC3	\$89.00	\$105.00
PAPER RECYCLING VOL. IV, PROCESS CONTROL & MENSURATION	08PRC4	\$63.00	\$75.00
PAPER: AN ENGINEERED STOCHASTIC STRUCTURE	0101R238	\$57.00	\$85.00
PAPERCON 2008 CONFERENCE PROCEEDINGS, CD-ROM	PAPERCD-08	\$74.00	\$111.00
PAPERCON 2009 CONFERENCE PROCEEDINGS, CD-ROM	PAPERCD-09	\$74.00	\$111.00
PAPERCON 2010 CONFERENCE PROCEEDINGS, CD-ROM	PAPERCD-10	\$74.00	\$111.00
PAPERCON 2011 CONFERENCE PROCEEDINGS, CD-ROM	PAPERCD-11	\$74.00	\$111.00
PAPERMAKING KITS	08PAPERKIT	\$45.00	\$61.00
PAPERMAKING:THE PICTORIAL STORY	0109FLOW	\$23.00	\$34.00
PEERS AND 9TH RESEARCH FORUM ON RECYCLING CONFERENCE PROCEEDINGS CD-ROM, 2010	PEERS-10	\$74.00	\$111.00
PEERS AND INTERNATIONAL PULP BLEACHING CONFERENCE PROCEEDINGS CD-ROM, 2011	PEERS-11	\$74.00	\$111.00
PERFORMANCE TEST PROCEDURE: SODIUM BASE RECOVERY UNITS	0101R263	\$61.00	\$92.00
PIGMENTS FOR PAPER	0102B062	\$103.00	\$155.00
PIMA MEMBERSHIP LAPEL PIN	LAPEL_PIMA	\$10.00	\$10.00
PITCH CONTROL, WOOD RESIN AND DERESINATION	0102B067	\$101.15	\$153.85
PLACE CONFERENCE PROCEEDINGS CD-ROM, 2007	PLACECD-07	\$74.00	\$111.00
PLACE CONFERENCE PROCEEDINGS CD-ROM, 2008	PLACECD-08	\$74.00	\$111.00
PLACE CONFERENCE PROCEEDINGS CD-ROM, 2009	PLACECD-09	\$74.00	\$111.00
PLACE CONFERENCE PROCEEDINGS CD-ROM, 2010	PLACECD-10	\$74.00	\$111.00
POLO SHIRT (PIMA) - 2X-LARGE, GREEN	POLOI2XL-PIM	\$38.00	\$47.00
POLO SHIRT (PIMA) - 2X-LARGE, WHITE	POLOW2XL-PIM	\$38.00	\$47.00
POLO SHIRT (PIMA) - LARGE, GREEN	POLOIL-PIM	\$38.00	\$47.00
POLO SHIRT (PIMA) - LARGE, WHITE	POLOWL-PIM	\$38.00	\$47.00
POLO SHIRT (PIMA) - MEDIUM, GREEN	POLOIM-PIM	\$38.00	\$47.00
POLO SHIRT (PIMA) - MEDIUM, WHITE	POLOWM-PIM	\$38.00	\$47.00
POLO SHIRT (PIMA) - X-LARGE, GREEN	POLOIXL-PIM	\$38.00	\$47.00

TITLE	ITEM NUMBER	MEMBER PRICE	LIST PRICE
POLO SHIRT (PIMA) - X-LARGE, WHITE	POLOWXL-PIM	\$38.00	\$47.00
POLO SHIRT (TAPPI) - 2X-LARGE, GREEN	POLOI2XL-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - 2X-LARGE, WHITE	POLOW2XL-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - LARGE, GREEN	POLOIL-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - LARGE, WHITE	POLOWL-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - MEDIUM, GREEN	POLOIM-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - MEDIUM, WHITE	POLOWM-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - X-LARGE, GREEN	POLOIXL-TAP	\$38.00	\$47.00
POLO SHIRT (TAPPI) - X-LARGE, WHITE	POLOWXL-TAP	\$38.00	\$47.00
POLYMER NANOCOMPOSITES HANDBOOK	11POLYNANO	\$116.00	\$145.00
POST-DRUPA TECHNOLOGY FORECAST FOR PRINT TO 2018	RPTDRUPA18	\$4,408.00	\$4,640.00
POWER PIPING DATA, SECOND EDITION	0101R118	\$26.00	\$39.00
PRACTICAL PAPERMAKING CD-ROM SERIES	PPSETCD	\$927.00	\$1,406.00
PRESSING OPERATION, THE PRACTICAL PAPERMAKING CD-ROM SERIES	PP08CD	\$114.00	\$173.00
PREVENTIVE MAINTENANCE, ESSENTIAL CARE AND CMS BOOK	10PMEC	\$115.00	\$125.00
PRINCIPLES OF NANOPHOTONICS	11NANOPHOTO	\$69.00	\$86.00
PRINCIPLES OF WET END CHEMISTRY	0101R241	\$44.00	\$64.00
PRINTING	0202FIN13	\$42.00	\$42.00
PRINTING FUNDAMENTALS	0102B045	\$56.00	\$85.00
PROCESS CONTROL FUNDAMENTALS FOR THE PULP AND PAPER INDUSTRY	0101R249	\$95.00	\$143.00
PROCESS ENGINEERING DESIGN CRITERIA HANDBOOK: PULP & PAPER NORMAL DESIGN CRITERIA	0101R262	\$64.00	\$95.00
PROCESS SYNTHESIS OR FUEL ETHANOL PRODUCTION	09PROSYN	\$80.00	\$104.00
PRODUCTIVITY IMPROVEMENTS IN ROTARY DIE CUT STACKERS	0101R257	\$19.00	\$29.00
PROPERTIES OF PAPER: AN INTRODUCTION, SECOND EDITION	0102B052	\$41.00	\$62.00
PULLOVER WIND SHIRT (PIMA) - 2X-LARGE	WIND-2LPIM	\$46.00	\$58.00
PULLOVER WIND SHIRT (PIMA) - 3X-LARGE	WIND-3LPIM	\$46.00	\$58.00
PULLOVER WIND SHIRT (PIMA) - LARGE	WIND-LPIM	\$46.00	\$58.00
PULLOVER WIND SHIRT (PIMA) - MEDIUM	WIND-MPIM	\$46.00	\$58.00
PULLOVER WIND SHIRT (PIMA) - X-LARGE	WIND-XLPIM	\$46.00	\$58.00
PULLOVER WIND SHIRT (TAPPI) - 2X-LARGE	WIND-2LTAP	\$46.00	\$58.00
PULLOVER WIND SHIRT (TAPPI) - LARGE	WIND-LTAP	\$46.00	\$58.00
PULLOVER WIND SHIRT (TAPPI) - MEDIUM	WIND-MTAP	\$46.00	\$58.00
PULLOVER WIND SHIRT (TAPPI) - X-LARGE	WIND-XLTAP	\$46.00	\$58.00
PULP & PAPER ENERGY BEST PRACTICES GUIDEBOOK	0101R316	\$57.00	\$83.00
PULP & PAPER TECHNOLOGY ADVANCED WORKFORCE TRAINING AND EDUCATION SERIES	0101R317SET	\$80.00	\$110.00
PULP AND PAPER AGITATION: THE HISTORY, MECHANICS, AND PROCESS, SECOND EDITION	0101R177	\$25.00	\$38.00
PULP AND PAPER PRIMER, SECOND EDITION	0101R110	\$15.30	\$21.25
PULP AND PAPER TECHNOLOGY ADVANCED WORKFORCE TRAINING AND EDUCATION SERIES, VOLUME 1: PULP MANUFACTURING	0101R317	\$45.00	\$60.00
PULP AND PAPER TECHNOLOGY ADVANCED WORKFORCE TRAINING AND EDUCATION SERIES, VOLUME 2: PAPER MANUFACTURING	0101R320	\$45.00	\$60.00
PULP AND PAPER TESTING	0202FIN17	\$42.00	\$42.00
PULP BLEACHING: PRINCIPLES AND PRACTICE	0102B061	\$124.00	\$186.00
PULP MILL OVERVIEW AND PROTECTING THE ENVIRONMENT	MPP-02	\$78.00	\$119.00
PULP MILL OVERVIEW AND PROTECTING THE ENVIRONMENT	MPP-02WEB	\$39.00	\$39.00
QUALITY IMPROVEMENT TEAM HANDBOOK	0101R260	\$29.00	\$44.00
<b>R</b>			
RECENT ADVANCE IN PAPER RECYCLING - STICKIES	08RAPRS	\$80.00	\$95.00
RECYCLED PAPER HANDBOOK	17CERMA1	\$25.00	\$28.00
RECYCLED PAPER TECHNOLOGY: AN ANTHOLOGY OF PUBLISHED PAPERS	0101R237	\$75.00	\$112.00
RECYCLING AND DEINKING (MAKING PULP AND PAPER SERIES CD-ROM)	MPP-08	\$78.00	\$119.00
RECYCLING AND DEINKING (MAKING PULP & PAPER SERIES)	MPP-08WEB	\$39.00	\$39.00
RECYCLING ANTHOLOGIES SET	RECSETCD	\$268.00	\$541.00
RECYCLING ANTHOLOGY CD-ROM (1994-2010)	PPRANTH-CD	\$119.00	\$249.00
RECYCLING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS, 1992-1997	0101R268	\$99.00	\$149.00
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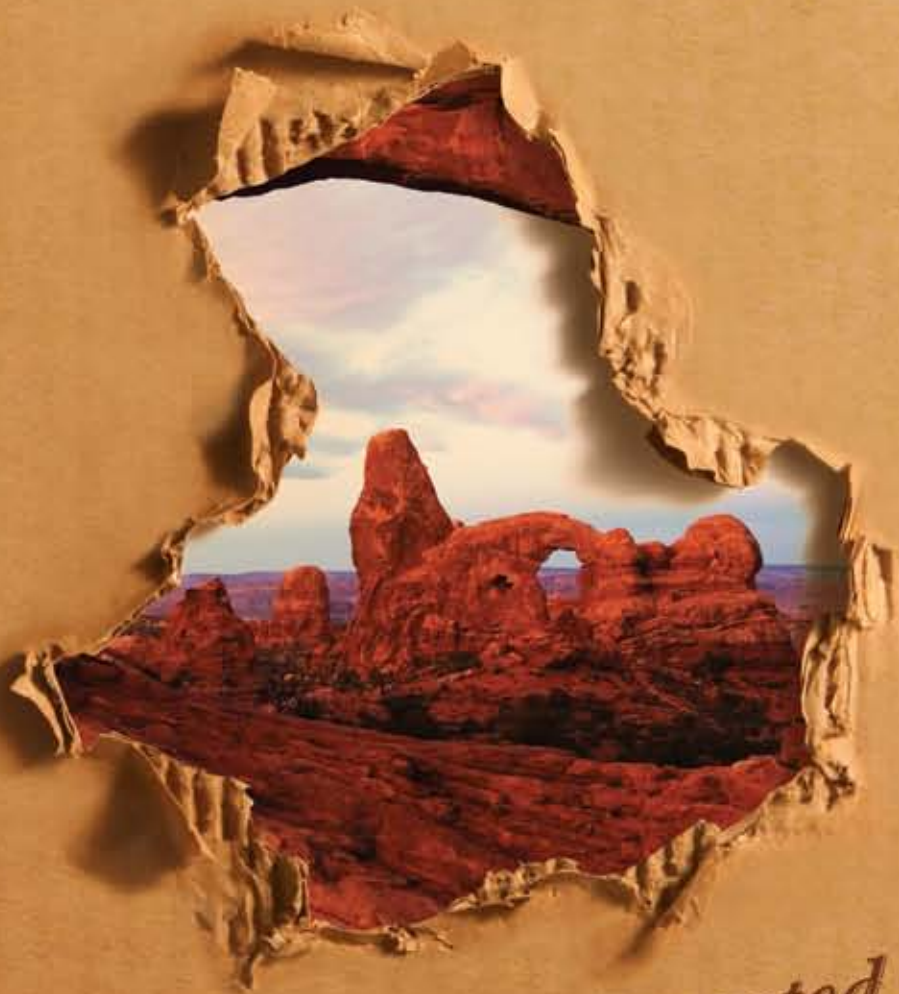
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