

Improved Bleaching with Less Corrosion – It's a Win-Win at PEERS 2020

Want to know how to improve your bleaching process? Find out at TAPPI's Pulping, Engineering, Environmental, Recycling and Sustainability (PEERS) Virtual Conference

Pulp mills are continually looking to optimize their bleaching processes without negatively impacting the paper machine operation. Traditional bleaching oxidants such as chlorine dioxide and hydrogen peroxide are known to cause corrosion on machinery metals and press felts and when used in biocide treatments can significantly degrade press felt life when concentration thresholds are exceeded. One novel approach for brightening bleached kraft pulp is sodium peracetate (singlet oxygen chemistry). This oxidant has exciting potential for technical performance, supply logistics, safety and cost reduction. Studies have shown it to be less corrosive than chlorine, bromine, and hydrogen peroxide on metal and press felt nylon fiber, therefore allowing its use at higher levels than other chemistries to increase brightness without increasing negative downstream impact. Peracetate can also be used with current biocide programs without consumptive degradation.

Discover the capabilities of this novel oxidant in high-density storage chests for brightening/whitening and to increase color stability at TAPPI's [Pulping, Engineering, Environmental, Recycling and Sustainability \(PEERS\) Virtual Conference](#). Howard Kaplan, Kaplan Consulting, LLC, will present "*Peracetate/Singlet Oxygen Chemistry Used in Post-Bleaching of Kraft Pulp is a Practical Oxidant for Paper Machines*" as part of the PEERS Pulping and Bleaching track.

This November 2-4, [PEERS](#) transitions to an all-virtual format creating an opportunity for industry professionals to participate in high quality technical sessions, research and keynote addresses, and networking events without leaving their mill or office.

Group Discounts for Mill

Mills can save money and time while still offering exceptional training opportunities to employees. Special group discounts offer even more savings. TAPPI member groups can register up to 5 attendees for only \$1,500 and each additional registration is only \$250. No travel, group savings and convenient online access mean more employees can get the knowledge and skills needed to positively contribute to the mill's future growth.

Technical Program

The comprehensive, peer-reviewed program includes tracks focused on pulping, bleaching, plant engineering, corrosion and materials, energy, recovery, lime kiln, recaust, recycling, nonwoods and more. The [Pulping and Bleaching](#) track will discuss new developments in the production and characterization of pulp, present methods and exemplary data for optimizing the process, and address issues in various unit operations.

Track presentations include:

- Energy Saving Potential of Screen Fractionation for Production of BCTMP
- What limits the strength of paper made from high yield pulps - fiber strength or bonding strength?
- No Cost Solution to Woodchip Handling
- Down Flow Cooking Process Optimization – A Case Study at a Southern US Mill
- Impact of Ozone Bleaching on Effluent Discharge
- Extension of a Steady-State Chlorine Dioxide Brightening Model for Z-ECF Bleaching of Softwood Kraft Pulps
- Pulp Bleaching, ClO₂ Technology & Related Challenges
- Peracetate/Singlet Oxygen Chemistry Used in Post-Bleaching of Kraft Pulp is a Practical Oxidant for Paper Machines
- Xylan Adsorption on Cellulose Fibers: A Fundamental Adsorption Study

[View technical program](#)

PEERS is co-located with [International Bioenergy & Bioproducts Conference \(IBBC\)](#). Participants can attend both virtual events for only one registration fee.

[Register today.](#)