



International Microbial Associates Inc.

Independent Consulting for Industry

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Expertise when the mill needs it

**Is machine efficiency where you want it?
Are you seeing holes and sheet defects?**

Recently IMA worked with a mill and vendors to deliver 95% efficiency after the mill tolerated 85% efficiency for months.

Does your paper have intermittent off odors? Has the community complained to the DOE about foul odors?

IMA works with mills to identify bacteria that caused offending odors and eliminate the areas where anaerobes proliferate.

What is wrong with the pH in the starch or coatings? Why the agglomeration?

IMA discovered incompatible biocides were used at different stages. Use of compatible chemistries improved control and actually reduced biocide costs.

IMA Inc. An internationally recognized expert in microbiology of papermaking, Linda's work has spanned 6 continents & hundreds of papermachines. She has authored over 45 papers & articles & 12 patents. With 14 years at Weyerhaeuser & 18 years at Nalco, Linda has unique expertise to work with both mills and vendors to resolve problems. This expertise has allowed her to solve problems on every grade of paper including fine, newsprint with catalase control, tissue, board, and various specialty grades such as Dairyman's.

Consultant to major Paper Companies, US Chemical Safety Board, and start up Chemical companies.

What can we do for you?

Problem Solving: *Is the problem caused by microbial activity? Did it originate within the mill or in the supply chain? Is it the water? An additive? An incompatible biocide program?*

Bid review: *It is tempting to use the lowest priced bid, but a poorly designed program can be incredibly costly in downtime, lost product and customer complaints. IMA can review bids, request appropriate testing and help the mill make knowledgeable choices for the best return on their investment for micro control program.*

Assistance in new product development: *Enter new markets. Develop products with antimicrobial properties. Help with test design and marketing.*

Review of new engineering projects for potential microbial problems: *Could the new tower act as an incubator for anaerobes and foul odors?*

Optimization reviews: *Is the correct biocide(s) used? Are expensive additives treated appropriately or are essential properties lost due to microbial activity. Audits save money and point out potential safety problems.*

