

LIST OF SIGNIFICANT PUBLICATIONS

M. A. MACGREGOR
JANUARY 2000

JOURNAL AND BOOK REFEREED PUBLICATIONS

1. MacGregor, M.A., *Duplication of pilot pressing studies using a laboratory web former*. Tappi Journal, 1975. **58**(6): p. 116-119.
2. Heller, H.H., M.A. MacGregor, and W.C. Bliesner, *Back to the basics in wet pressing*. Paper Technology and Industry, 1975: p. 154-163.
3. Bliesner, W.C. and M.A. MacGregor, *How important is rewetting in wet pressing?* Tappi Journal, 1976. **59**(6): p. 114-119.
4. MacGregor, M.A., *Practical effects of sheet stratification caused by wet pressing*. Tappi J., 1983. **66**(7): p. 65-69.
5. MacGregor, M.A., *A description of sheet stratification caused by wet pressing*. Tappi J., 1983. **66**(6): p. 53-57.
6. MacGregor, M.A., *What happens during shell and groove marking*. Tappi J., 1985. **68**(9): p. 84.
7. MacGregor, M.A. and T.E. Conners, *Image analysis of a LWC paper reveals wire mark in the print density variations*. Tappi Journal, 1987. **70**(9): p. 95-99.
8. MacGregor, M.A., ed. *Wet pressing research in 1989--an historical perspective, analysis, and commentary*. 9th Fundamental Research Symposium. Vol. 2. 1989, Mechanical Engineering Publications, Ltd: Cambridge, UK. 511-586.
9. MacGregor, M.A. and T.E. Conners, *MD microstriations in paper: a two-sided shrinkage phenomenon?* Tappi J., 1989. **72**(4): p. 178-181.
10. MacGregor, M.A. and P.-Å. Johansson, *Submillimeter gloss variations in coated paper; Part I, the gloss imaging equipment and analytical techniques*. Tappi Journal, 1990. **73**(12): p. 161-168.
11. MacGregor, M.A. and P.-Å. Johansson, *Submillimeter gloss variations in coated paper; Part 2, Studying "orange peel" gloss effects in a lightweight coated paper*. Tappi Journal, 1991. **74**(1): p. 187-194.
12. MacGregor, M.A., *High-intensity pressing and sheet-finish problems*. Tappi J., 1991. **74**(11): p. 195-199.
13. MacGregor, M.A., *The technical challenges of making better paper--preparing for the 21st century*. Tappi Journal, 1993. **76**(6): p. 143-154.
14. Antoine, C., et al., eds. *The Influence of Underlying Paper Surface Structure on Missing Dots in Gravure*. Advances in Printing Science and Technology, ed. J.A. Bristow. Vol. Vol. 23. 1997, Penntech. p. 401-414.

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JOURNAL PUBLICATIONS IN PROCESS

1. MacGregor, M.A., P.-Å. Johansson, and M.-C. Béland, *Small-scale gloss variation in prints Part 1: Psychophysical measurements*. In Process.
2. MacGregor, M.A., P.-Å. Johansson, and M.-C. Béland, *Small-scale gloss variation in prints Part 2: Facet tilt explains most of the perceived variation*. In process.
3. MacGregor, M.A., P.-Å. Johansson, and M.-C. Béland, *Small-scale gloss variation in prints Part 3: Changes in gloss uniformity resulting from printing*. In process.
4. MacGregor, M.A., *Tape peels reveal fibre tilt angle during forming process?*, In process.

FORMAL COURSE DOCUMENTATION

1. MacGregor, M.A., *Strobelight observations of a high pressure felt cleaning jet*, Tappi Pressing & Drying Short Course, Editor. 1981, TAPPI press: Atlanta, GA.
2. MacGregor, M.A., *Observations of water removal by a plexiglass vacuum box*, Tappi Pressing & Drying Short Course, Editor. 1981, TAPPI press: Atlanta, GA.
3. MacGregor, M.A., *Paper defects caused by fluid shear force during pressing*, Tappi Pressing & Drying Short Course, Editor. 1985, TAPPI press: Atlanta, GA..
4. MacGregor, M.A., *A micro-mechanical view of wet pressing and resulting paper properties*, Tappi Pressing & Drying Short Course, Editor. 1998, TAPPI Press: Panama City, FL, USA.

FORMAL TECHNICAL AND SCIENTIFIC REPORTS

1. MacGregor, M.A., *A task force analysis of seven roll cover failures*, 1979, Voith, Inc.: Appleton, WI.
2. MacGregor, M.A., *Improving the 3rd press performance of a Fine Paper Machine*, 1979, Voith, Inc.: Appleton, WI.
3. MacGregor, M.A., *Central vacuum system performance on a high-speed LWC Paper Machine*, 1980, Voith, Inc.: Appleton, WI.
4. MacGregor, M.A., *Premature center suction roll cover failures on a High-Impulse Linerboard Machine*, 1980, Voith, Inc.: Appleton, WI.
5. MacGregor, M.A., *An SEM study of Bible paper to determine press rebuild configuration*, 1983, Voith, Inc.: Appleton, WI.
6. MacGregor, M.A., *Sheet flutter studies on a High-Speed LWC Paper Machine*, 1983, Voith, Inc.: Appleton, WI.
7. MacGregor, M.A., *Groove marking and sheet stratification for a heavy-weight coated paper machine*, 1983, Voith, Inc.: Appleton, WI.
8. MacGregor, M.A., *Wet press simulations using Red River Mill furnish to predict High-Impulse press rebuild performance*, 1983, Voith, Inc.: Appleton, WI.
9. MacGregor, M.A., *Wet press simulations for a new high-loaded 4th press on a high-speed LWC Paper Machine*, 1984, Voith, Inc.: Appleton, WI.
10. MacGregor, M.A., *Image analysis reveals a hidden wire mark defect in the printed LWC sheet*, 1986, Voith, Inc./Institute of Paper Chemistry: Appleton, WI.

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11. MacGregor, *Pressroom runnability problems with directory paper caused by fibre orientation*, 1986, Voith, Inc.: Appleton, WI.
12. MacGregor, M.A., *The source of coating "graininess" and croda ink patterns in an UNsupercalendered coated LWC paper revealed by Image Analysis*, 1987, Voith, Inc./University of Wisconsin: Appleton, WI.
13. MacGregor, M.A., *The sensing of starch penetration to evaluate the Voith Speedsizer*, 1987, Voith, Inc.: Appleton, WI.
14. MacGregor, M.A., *Evaluation of optically-enhanced coating roughness and directionality for LWC paper*, 1988, Voith, Inc.: Appleton, WI.
15. MacGregor, M.A., *Visual and microscopic examination of coated food board reveals origins of surface disturbances*, 1988, Voith, Inc.: Appleton, WI.
16. Macgregor, M.A., *Wire side microgloss scan of two LWC papers quantifies gloss inhomogeneity*, 1988, Voith, Inc./STFI: Appleton, WI.
17. MacGregor, M.A., *Coating directionality from short dwell blade coating process*, 1988, Voith, Inc.: Appleton, WI.
18. MacGregor, M.A., *Investigations of 'Orange Peel' gloss patterns in a LWC paper*, 1989, Royal Institute of Technology: Stockholm.
19. MacGregor, M.A. and P.-Å. Johansson, *Image correlations reveal origins of 'Orange peel' gloss variations in a commercial LWC paper*, 1989, Royal Institute of Technology: Stockholm.
20. MacGregor, M.A., *Exploratory investigations of high-incidence-angle digital gloss imaging*, 1989, KTH: Stockholm.
21. MacGregor, M.-A., *Linerboard surface finish problems associated with the shoe press*, 1990, STFI and KTH: Stockholm.
22. MacGregor, M.A., *Image analysis of ammonium chloride burnouts of 13 North American Commercial LWC samples*, 1990, Royal Institute of Technology: Stockholm.
23. MacGregor, M.A., *Using reflected light to measure 'Elephant Skin' surface disturbances in linerboard*, 1990, Royal Institute of Technology: Stockholm.
24. MacGregor, M.A., *Steam shower application for FlexoNip press installations*, 1991, Voith, Inc./Voith GmbH: Appleton, WI.
25. MacGregor, M.A., *CD Shrinkage roughening and "hard roll ends" after supercalendering on a high-speed SC Paper Machine*, 1993, Voith, Inc.: Appleton, WI.
26. MacGregor, M.A., *Fiber orientation and weak front side tensile strength*, 1993, Voith, Inc.: Appleton, WI.

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CONFERENCE PROCEEDINGS

1. MacGregor, M.A. and P.-Å. Johansson, *Image analysis techniques for studying "orange peel" gloss effects in a LWC paper*, in *Tappi Coating Conference*. 1990: TAPPI Press.
2. MacGregor, M.A. and P.-Å. Johansson, *Gloss uniformity in coated paper*. in *Tappi Coating Conference*. 1991: TAPPI Press.
3. Schiel, C.S. and M.A. MacGregor, *The blind drilled sleeve--a breakthrough in shoe press operation*. in *Tappi Engineering Conference*. 1993: TAPPI Press.
4. MacGregor, M.A., P.-Å. Johansson, and M.C. Béland, *Measurement of small-scale gloss variation in printed paper: topography explains much of the variation for one paper*. in *TAPPI/CPA International Printing and Graphic Arts Conference*. 1994. Halifax, Nova Scotia, Canada: Canadian Pulp & Paper Association.
5. MacGregor, M.A., *Measuring water-induced roughening of LWC paper and its effect on printed gloss*. in *Process and Product Quality*. 1996. Cincinnati, OH: TAPPI Press.
6. MacGregor, M.A., *A review of the topographical causes of gloss variation and the effect on perceived print quality*, Proceedings of the Hansol Research Symposium 2000, Seoul, Korea, Dec 1, 2000.
7. MacGregor, M.A., *Some impacts of paper making on paper structure*, Proceedings of the COST Paper Machine Technology Conference, Lanaken, Belgium, 8 Feb 01.
8. MacGregor, M.A., *Membrane formation on paper surfaces*, Proceedings of PTS/CTP Symposium 2002, Munich, Germany, Sept. 2002.

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