

2007

## Patents, Journal Publications & Presentations

1. Bento, L. S. M.; Cortes, R.; Rein, P. W. (2007): **The direct production of white sugar in a cane sugar mill.** Int. Sugar J. 109: 1301, 286-299.
2. Birkett, H.; Stein, J. (2007): **Energy Self-Sufficiency and Cogeneration in Louisiana Cane Sugar Factories, (2007):** ASI Annual Factory Operations Seminar, p. 1-21. Presentation
3. Birkett, H.; Stein, J. (2007): **Louisiana Milling Results (2005 & 2006).** J. Amer. Soc. Sugar Cane Technol., 27: 78. Abstract
4. Chung, C. H.; Day, D. F. (2007): **Cellulosic ethanol production from sugarcane bagasse using lime.** CPERC Annual Technical Mtng., Tulane University, New Orleans, LA, 15 Aug. Presentation
5. Chung, C. H.; Day, D. (2007): **Process for sugar production from lignocellulosic biomass.** Serial # 60/887,684. Patent Pending
6. Day, D. (2007): **Adding Value to Molasses.** ASI Annual Factory Operations Seminar, p. 23-26, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
7. Day, D. F.; Stradi, B.; DeQueiroz, G.; Chung, C. H. (2007): **Bagasse to Ethanol-Pretreatment Options.** ASSCT LA Division Annual Mtng., Baton Rouge, LA, 5-7 Feb
8. Day, D. F.; DeQueiroz, G.; Chung, C. H.; Kim, M. (2007): **By-Products from Bagasse.** Proc. ISSCT Cong. XXVI, Durban, South Africa, 29 Jul-2 Aug. Presentation
9. Day, D. F.; Stradi, B. (2007): **Bagasse Storage.** ASI Annual Factory Operations Seminar, p. 27-30, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
10. Day, D. F.; Chung, C. H. (2005): [Chemical oxidation for cellulose separation, patent pending, serial number.](#) Serial #60/660,801. Patent Pending
11. Day, D. F. (2007): **Fermentable sugars from soy meal.** Annual Mtng. Expo. 98, Quebec QC, Canada, 13-16 May. Presentation
12. Day, D. F.; Chung, C. H.; (2007): [Isomaltooligosaccharides from Leuconostoc as Nutraceuticals. U.S. Patent # 7,291,607,](#) 6 Nov.
13. DeQueiroz, G.; Day, D. F. (2007): **Antimicrobial Activity and Effectiveness of a Combination of Sodium hypochlorite and Hydrogen Peroxide in Killing and Removing Pseudomonas Aeruginosa Biofilms from Surfaces.** [J. Appl. Microbiol. Oct 103\(4\): 794-802.](#)
14. Echeverri, L. F.; Rein, P. W.; Acharya, S. (2007): **Measurements and CFD simulation of the flow in vacuum pans.** Proc. Int. Soc. Sugar Cane Technol. 26: 1341-1353
15. Echeverri, L.; Rein, P. W.; Acharya, S. (2007): **Measurements and CFD simulation of the flow in vacuum pans.** Proc. ISSCT Cong. XXVI, FE-15, Durban, South Africa, 29 Jul-2 Aug. Abstract
16. Echeverri, L. F.; Rein, P. W.; Acharya, S. (2007): **Measurements and CFD simulation of the flow in vacuum pans.** Zuckerindustrie 132: 11, 817-823.

## Audubon Sugar Institute

17. Echeverri, L. F.; Rein, P. W.; Acharya, S. (2007): **Numerical analysis of the hydraulic design of sugar evaporating crystallizers (vacuum pans).** Zuckerindustrie 132: 12, 908-919.
18. Echeverri, L. F.; Rein, P. W.; (2007): **Numerical study of the flow in air flotation syrup clarifiers.** Int. Sugar J. 109: 1302, 372-378.
19. Kochergin, V.; Alvarez, J. F. (2007): **Softening of Clarified Juice with Ion Exchange Resins.** ASSCT LA Div. Ann. Mtng., Baton Rouge, LA, 5-7 Feb. Abstract
20. Kochergin, V.; Jacob, W. Kearney, M.; Bornak, W. (2007): **Ion exchange decolorization-possibility of resin rejuvenation.** Proc. Biennial Mtng. ASSBT 34, Salt Lake City, UT, 28 Feb-3 Mar. Presentation
21. Kochergin, V. (2007): **Audubon Sugar Institute and the Future of Sugar Research.** Proc. Biennial Mtng. ASSBT 34, Salt Lake City, UT. 28 Feb-3 Mar. Abstract
22. Kochergin, V.; Jacob, W.; Bornak, W. (2007): **Extending life of decolorization resin by aggressive cleaning procedures.** Proc. Sugar Ind. Technol.: #918, Baltimore, MD, 6 May. Abstract
23. Kochergin, V.; Alvarez, J. F. (2007): **Descaling of mill evaporators-is clarified juice softening a good option?** J. Amer. Soc. Sugar Cane Technol. 37, New Orleans, LA, 13-15 Jun. Presentation
24. Kochergin, V. (2007): **Membrane Applications in the Sugar Industry, Part 1.** Membr. Sep. Technol. News, Jul, 26: 8, 8-9, 16. International Newsletter
25. Kochergin, V. (2007): **Membrane Applications in the Sugar Industry, Part 2.** Membr. Sep. Technol. News, Aug, 26: 8, 13-15. International Newsletter
26. Legendre, B. L.; Tew, T.; Birkett, H.; Eggleston, G.; Finger, C.; Stein, J. (2007): **Impact of Subfreezing Temperatures on the 2006 Louisiana Sugarcane Harvest.** J. Amer. Soc. Sugar Cane Technol. 37, New Orleans, LA, 13-15 Jun, 27: 74. Abstract
27. Madsen, L. R.; Stradi, B. (2007): **Biobased, Biodegradable and Photocrosslinking Thermoset Copolymers Made From Glycerol.** Patent Pending
28. Madsen, L. R. (2007): **Added Value from polymers made from glycerol: Beer cups to Biotech.** ASI Annual Factory Operations Seminar, p. 41-48, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
29. Madsen, L. R. (2007): **Direct Production of White Sugar: Progress in Inhibition and Removal of color.** ASI Annual Factory Operations Seminar, p. 49-56, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
30. Polanco, L. S.; Rein, P. W.; White, B. E.; Verret, C. (2007): **A statistical analysis of the rheological properties of final molasses.** In Press
31. Prior, B. A.; Day, D. F. (2007): **Hydrolysis of ammonia pretreated sugar cane bagasse with cellulase,  $\beta$ -glucosidase and hemicellulose preparations.** Symp. Biotechnol. Fuels and Chem., 29th, Denver, Co. 29 Apr-2 May. Presentation
32. Rein, P. W. (2007): **Biofuels research at Audubon Sugar Institute.** Sugar J. 69: 9, 9-10.
33. Rein, P. W. (2007): [Cane Sugar Engineering](#), Verlag Dr. A. Bartens, Berlin. 768 pp., ISBN 978-3-87040-110-8.
34. Rein, P. W. (2007): **Developments in sugarcane processing over the last 25 years.** General Assembly 23 of CITS, Rostock, Germany 13-16 May. Presentation
35. Rein, P. W. (2007): **Developments in sugarcane processing over the last 25 years.** Zuckerindustrie 132: 6, 435-444.

## Audubon Sugar Institute

36. Rein, P. W. (2007): **Prospects for the conversion of a sugar mill into a biorefinery.** Proc. Int. Soc. Sugar Cane Technol. 26: 44-60.
37. Rein, P. W.; Bento, L.; Cortez, R. (2007): **The Direct Production of White Sugar in a Cane Sugar Mill.** Int. Sugar J. May 109: 1301, 286-299.
38. Saska, M. (2007): **Raw Sugar Quality: Effects of Wash Water.** ASI Annual Factory Operations Seminar, p. 57-60, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
39. Saska, M. (2007): **New Uses of Sugar Cane Biomass.** ASI Annual Factory Operations Seminar, p. 61-62, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
40. Saska, M. (2007): **White Sugar Production.** ASI Annual Factory Operations Seminar, p. 63-64, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
41. Stradi, B.; DeQueiroz, G. (2007): **Integrated Biorefinery Research for the Production of Biofuels and Bioenergy.** ASI Annual Factory Operations Seminar, p. 31-40, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
42. White, B. E.; Verret, C.; Chatelain, J. H. (2007): **The Final Molasses Survey Report: More than Target Purity Difference.** ASSCT Conf., Baton Rouge, LA. 5-7 Feb. Presentation
43. White, B. E. Verret, C. (2007): **Final Molasses, Syrup and Juice Survey Results for the 2006 Grinding Season.** ASI Annual Factory Operations Seminar, p. 65-68, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation
44. White, B. E. Verret, C. (2007): **Understanding the Molasses Survey: More than TPD.** ASI Annual Factory Operations Seminar, p. 69-72, LSU Campus, Baton Rouge, LA, 22 Apr. Presentation