

2006

Patents, Journal Publications & Presentations

1. Barraza, J. M.; E. J. Primera; Saska, M. (2006): **Tecnologias para la generacion de Energia a partir de la biomasa Co-liquefaccion de residuos del corte de la cosecha de canna con carbon.** Memorias Del Congreso Colombiano De Ingenieros Quimicos. "TRANSLATION: **Technologies for the generation of Energy from the biomass Co-liquefaction of cane residues with coal.** Proc. of the Colombian Cong. of Chem. Engineers.
2. Bento, L.; Rein, P. W.; Sabliov, C.; Boldor, D.; Coronel, P. (2006): [C Massecuite re-heating using microwaves.](#) J. Amer. Soc. Sugar Cane Technol. 26: 1-13.
3. Bento, L. (2006): **Activated Carbons: adsorption of sugar colorants and chemical regeneration.** Proc. Sugar Ind. Technol. LXV: #906, 145-163, La Baule, FR, 14-17 May. Abstract
4. Bento, L. (2006): **Activated Carbons: adsorption of sugar colorants and chemical regeneration.** Zuckerindustrie, 131: 56, 827-833 Dec.
5. Bento, L.; Cuddihy, J.; Simoneaux, W. (2006): **Filtrate Clarification.** Amer. Soc. Sugar Cane Technol. LA Div. Annual Meeting, Baton Rouge, LA, 7-8 Feb. Abstract
6. Birkett, H. S.; Stein, J. (2006): [Energy Self Sufficiency and Co-generation in Louisiana Cane Sugar Factories.](#) J. Amer. Soc. Sugar Cane Technol., 26: 60.
7. Birkett, H. S.; Stein, J. (2006): **Louisiana Milling and Boiler Efficiencies - 2005.** Amer. Soc. Sugar Cane Technol. LA Div. Annual Mtng., Baton Rouge, LA, 7-8 Feb. Abstract
8. Chung, C.; Day, D. F.; DeQueiroz, G. A. (2006): **Enzyme Hydrolysis and Phenols Recovery Post Alkaline and Organosolv Treatment of Sugarcane Bagasse.** Symp. Biotechnol. Fuels and Chem. Proc., 28, Nashville, TN, Apr 30-May 3. Poster
9. Chung, C. (2006): **Isomatoooligosaccharides as prebiotics (Session 107-08, invited oral presentation).** Inst. Food Technol. Annual Mtng, Orlando, FL, 24-28 Jun. Abstract
10. Day, D. F.; Duwoon, K. (2006): **Use of Antibody Displayed Phage for the Detection of Dextran Using a Dipstick Assay and Transmission Electron Micrograph.** J. Microbiol. Biotechnol. 16, 8: 1316-1319.
11. Day, D. F.; Rein, P. W. (2006): **Overview of the Audubon Sugar Institute Biorefinery Project.** Amer. Soc. Sugar Cane Technol. LA Div., Baton Rouge, LA, 7-8 Feb. Abstract
12. Day, D. F.; Stradi, B.; DeQueiroz, G.; Chung, C. (2006): **Bagasse to Ethanol - Pretreatment Options.** Proc. Aust. Soc. Sugar Cane Technol. 28, 2-5 May, Mackay, Queensland. Abstract
13. DeQueiroz, G. A.; Day, D. F. (2006): **Surface Decontamination of *Bacillus subtilis* Spores.** J. App. Microbiol. Submitted

14. DeQueiroz, G. A.; Day, D. F. (2006): **Phenolic Acids Released Post Alkaline and/or Organosoly Treatment from Sugarcane Bagasse and Field Trash**. Indust. Biotechnol. Bioprocess. Annual World Cong. 3, Toronto, Canada, 11-14 Jul. Poster
15. DeQueiroz, G. A.; Day, D. F. (2006): **Antimicrobial Activity and Effectiveness of a Combination of Sodium Hypochlorite and Hydrogen Peroxide in Killing and Removing *Pseudomonas aeruginosa* Biofilms from Surfaces**. J. App. Microbiol. Submitted
16. Echeverri, L. F.; Rein, P. W. (2006): **Numerical Study of the Flow in Air Flotation Syrup Clarifiers**. Proc. S. Afr. Sugar Technol. Assoc. 80: 378-390.
17. Echeverri, L. F.; Rein, P. W.; Acharya, S. (2006): **Numerical and Experimental Study of the Flow in Evaporating Crystallizers**. Zuckerindustrie, 130: 7, 538-544.
18. Gil, N.; Saska, M.; Briceno, C. O. (2006): **Characteristics and applications of green sugarcane tops and leaves for production of bio-chemicals and energy**. Proc. Cong. Tecnica, 7. Sep 6-8. Submitted
19. Kim, M.; Chung, C.; Day, D. F. (2006): **Cellobiose Production using b-glucosidase Inhibition**. Symp. Biotechnol. Fuels and Chem. Symp. Biotechnol. for Fuels & Chem., 28, Apr 30-May 3, Nashville, TN. Poster
20. Kim, D.; Day, D. F. (2006): **Synergistic Antimicrobial Action of Thymol and Sodium Bisulfate against *Burkholderia cepacia* and *Xanthomonas maltophilia* Isolated from the Space Shuttle Water System**. Food Sci. Biotechnol., 15, 2: 321-323.
21. Lee, Y.; Chung, C.; Day, D. F. (2006): **Oxidative Fractionation of Sugarcane Bagasse Using a Combination of Hypochlorite and Peroxide**. Symp. Biotechnol. for Fuels & Chem., 28, Apr 30-May 3, Nashville, TN. Abstract
22. Madsen, L. R. (2006): **Simulated Multiple Effect Evaporation of Clarified and Decolorized Sugarcane Juices and Accelerated Storage Tests of the Syrups: Evolution of color and the Behavior of Carbohydrates and Related Compounds**. Proc. Sugar Proc. Res. Inst. Conf. Abstract
23. Madsen, L. R. (2006): **Future Trends, Challenges, and Possibilities, Part II "An Interesting Future: Cane Processing in the U. S. and Biorefinery Concepts"**. Amer. Soc. Sugar Cane Technol. Joint Annual Meeting, Jun 14-16, St. Petersburg, FL. Abstract
24. Madsen, L. R. (2006): **From Arrhenius to You: Sucrose Inversion, Kinetics, and Inhibition**. Amer. Soc. Sugar Cane Technol. Joint Annual Meeting, Jun 14-16, St. Petersburg, FL. Abstract
25. Martins, P.; Rocha, F.; Rein, P. W. (2006): [Effect of cane sugar impurities on sucrose growth Kinetics](#). Proc. Sugar Ind. Technol. 65, May 14-17, LaBaule, France. Poster
26. Moon, Y.; Chung, H.; Nam, S.; Kim, D.; Kim, G.; Woo, N.; Pyo, J. (2006): **Characterization of Novel Epigallocatechin Gallate Glycosides Using Glucanase from *Leuconostoc mesenteroides* B-1299CB**. Symp. Biotechnol. for Fuels and Chem., 28, April 30-May 3, Nashville, TN. Poster
27. Polanco, L. S.; Rein, P. W.; White, B. E. (2006): **A comparison of sugarcane juice quality from a mill and a diffuser**. Sugar J., 68: 10, 12-20.
28. Polanco, L. S.; White, B. E.; Verret, C.; Rein, P. W. (2006): [Statistical Analysis of Rheological Properties of Final Molasses](#). J. Amer. Soc. Sugar Cane Technol., 26, 61.

29. Polanco, L. S.; Rein, P. W. (2006): **Some Fundamental Considerations of Crystallization and their Implications for the Control of Sugar Boiling.** Contribution to Proc. Sugar Ind. Technol., May 14-17, LaBaule, France. Abstract
30. Rein, P. W.; Bento, L.; Cortes, R. (2006): **The Direct Production of White Sugar in a Cane Sugar Mill.** Proc. Sugar Proc. Res. Inst. Conf. In press
31. Rein, P. W. (2006): **The Effect of Green Cane Harvesting on a Sugar Mill.** Int. Sugar J. 107: 1281, 498-504.
32. Saska, M.; Chou, C. C. (2006): [Antioxidants, an Excellent Phytochemical Functional Food from Sugar Cane](#). Proc. Sugar Ind. Technol., 65, May 14-17, LaBaule, France. Abstract
33. Saska, M., Gil Zapata, N. (2006): **Some Observations on Feasibility of Recovering Aconitic Acid from Low Purity Sugar Cane Liquors.** Int. Sugar J. 108: 1288, 203-208.
34. Saska, M.; Gray, M. (2006): **Lime-enhanced steam explosion pre-treatment of sugarcane leaves and bagasse for biomass ethanol production.** Symp. Biotechnol. Fuels and Chem., 28, Apr 30-May 3, Nashville, TN.
35. Saska, M.; Gray, M. (2006): **Pre-treatment of sugarcane leaves and bagasse pith with lime-impregnation and steam explosion for enzymatic conversion to fermentable sugars.** Symp. Biotechnol. Fuels and Chem., 28, Nashville, TN, Apr 30-May 3.
36. Saska, M.; Martin, C. (2006): **Production of fuel ethanol from sugarcane bagasse and sugarcane trash.** Cuban Cong., Sugar and Sugar Cane Derivatives, 9, Jun. Submitted
37. Saska, M. (2006): **Crystallization rate, heat transfer and viscosity of technical sugarcane liquors.** Zuckerindustrie, 131, 2: 98-104.
38. Saska, M.; Dinu, I. (2006): **Production and properties of soil erosion control mats made from sugarcane bagasse.** Geotextiles Geomembranes. Abstract
39. Solberg D.; Rein P. W.; Schlorke D. (2006): **Online evaporator heat transfer measurement and analysis.** Int. Sugar J., 108, 1285: 28-38.
40. White, B. E.; Polanco, L. S.; Verret, C. (2006): **Utilizations of NIR Spectroscopy for Factory Control.** Proc. Sugar Proc. Res. Inst. Conf. Abstract