

2005

## Patents, Journal Publications & Presentations

1. Bento, L. S. M.; Wang, T.; Li, X.; Monge, A. (2005): **Utilization of Infrared Images to Inspect C-Masseccuite Processing**, Proc. Sugar Ind. Technol., Dubai, UAE, Apr.
2. Birkett, H. S., Stein, J. M. (2004): **Cane Washing Losses**. Sugar J., 67, 4, 17-21; 5, 25-28; 6, 16-21.
3. Day, D. F. (2005): **Biocide Composition and Related Methods**. US Patent 6,866,870 B2, 15 Mar.
4. Day, D. F., Chung, C. H. (2004): **A Neutraceutical**. US Patent pending, filed May 2003.
5. Day, D. F., Kim, D. W. (2005): **A Dip-Stick Assay for Dextran Analysis**. Proc. ISSCT Cong. 25, I: 89-92.
6. Day, D. F., Chung, C. H., Lee, Y. J. (2005): **Chemical Oxidation for Cellulose Separation**, ACS National Meeting 229, San Diego, CA, 13-17 Mar.
7. Echeverri, L. F.; Acharya, S.; Rein, P. W. (2005): **Computational and experimental study of the flow in evaporative crystallizers**. Proc. NHTC Amer. Soc. Mech. Eng. Heat Transfer Conf., 17-22 Jul.
8. Echeverri, L. F., Rein, P. W., Acharya, S. (2005): **Numerical and experimental study of the flow in vacuum pans**. Proc. ISSCT Cong. 25, I: 212-222.
9. Echeverri L.F.; Rein P.W.; Acharya S. (2005): **Numerical and experimental study of the flow in evaporating crystallizers**. Zuckerindustrie 130: 538-544
10. Gil, N., Negulescu, I., Saska, M.(2005): **The Effect of Bio-Based Plasticizers on Mechanical and Thermal Properties of PVC**. J. Appl. Polym. Sci. 102, 2: 1366-1373.
11. Kang, H. K., Seo, M. Y., Seo, E. S., Kim, D., Chung, S.Y., Kimura, A., Day, D. F., Robyt, J. F. (2005): [Cloning and expression of levansucrase from \*Leuconostoc mesenteroides\* B-512 FMC in \*Escherichia coli\*](#). Biochim. Biophys. Acta, 21 Jan.
12. Kim, M., Xu, Z., Bento, L., Day, D. F. (2005): [Antioxidant Activities of Methanol Extracts from Crude Sugarcane Syrup](#). IFT Annual Meeting and Food Expo, New Orleans, 16-20 July.
13. Madsen II, L. R., Day, D. F. (2004): **Mixed Dithiocarbamates for the Preservation of Sugar Cane Juice**. Int. Sugar J., 107, 1282: 576-580.
14. Martins, P. M., Rocha, F. A., Rein, P. W. (2005): **Modeling Sucrose Evaporative Crystallization Part I – Vacuum Pan Monitoring by Mass Balance and Image Analysis Methods**. Ind. Eng. Chem. Res. 44, 23: 8858-8864.

15. Martins, P. M., Rocha, F. A., Rein, P. W. (2005): **Modeling Sucrose Evaporative Crystallization Part II – Investigation into Crystal Growth Kinetics and Solubility.** Ind. Eng. Chem. Res. 44, 23: 8865-8872.
16. Martins, P. M., Rocha, F. A., Rein, P. W. (2005): **New Methods for Characterization and Control of Industrial Crystallization.** VDI Berichte (1901 II), 1051. (on behalf of the Int. Symp. Ind. Crystallization 16, Dresden, Alemanha).
17. Martins, P. M., Rocha, F. A., Rein, P. W. (2005): **Vacuum Pan Monitoring by Mass Balance and Image Analysis Methods.** Proc. Sugar Ind. Technol., 64: 241-249.
18. Rein, P. W. (2005): **The Effect of Green Cane Harvesting on a Sugar Mill.** Proc. ISSCT Cong. 25, I: 513-520.
19. Rein, P. W. (2005): **Utilization of Sugarcane Biomass for Ethanol and Chemicals Production.** LA Sugar Bulletin, 83, 6: 17-19.
20. Rein, P. W. (2005): **The Production of Ethanol in a Cane Sugar Mill.** LA Sugar Bulletin, 83, 8: 13.
21. Rein P. W. (2005): **Opportunities for the production of ethanol, electric power and chemicals from sugarcane in Louisiana.** LA Sugar Bulletin. 84, 2: 17-19.
22. Rein P. W. (2005): [The effect of green cane harvesting on a sugar mill.](#) Int. Sugar J. 107, 1281: 498-504.
23. Rein, P. W.; Muzzell, D. J.; Dolan, N. (2005): [The Use of a Coriolis Flow Meter for Measuring Molasses Production in a Sugar Mill.](#) J. Amer. Soc. Sugar Cane Technol. 25, 129-142.
24. Saska, M. (2005): **Boiling Rate, Heat Transfer and Viscosity of Technical Sugar Cane Liquors.** Proc. ISSCT Cong. 25, I: 51.
25. Saska, M., Gil Zapata, N., (2005): **Nuevas Alternativas para el Aprovechamiento Industrial de los Residuos de la Cana de Azucar.** (Translated) **Alternative piece of news for the Industrial Use of the Residues of the Sugarcane.** Carta Trimestral. 26: 2 & 3, 3.
26. Saska, M. (2005): **Composition of Clarifier Mud and its Filterability.** Sugar J., 67, 10, 10-12, & 14-15, Mar.
27. Saska, M., Cuddihy, J. (2005): **Replacement of Lime with Soda Ash in Cane Juice Clarification,** Sugar J., 68, 3: 36-41.
28. Tiedje, T.; Teymori, F. A.; McCalla, D.; Stowers, M.; Chung, C. H.; Day, D. F.; Rein, P. W. (2005): [Separation of cellulose from hemicellulose and lignin from sugarcane bagasse and cane leaf matter.](#) Symp. Biotechnol. Fuels and Chem., 1-4 May. Poster 3B-45.
29. Thirataran, S. N., Chung, C. H., Day, D. F., Hinton, A., Baily, J. S., Siragusa, G. R. (2005): **Isomaltooligosaccharide Increases Cecal Bifidobacterium population in Young Broiler Chickens.** J. Poultry Sci., 84: 998-1003.