

ASI Publications and Presentations 2014-2017

Giovanna Aita

Manuscripts

Oladi, S., Aita, G.* (2017) Interactive Effect of Enzymes, Surfactant and Post-Washing on the Cellulose Digestibility of Dilute Ammonia Pretreated Energy Cane Bagasse. Journal of Biomass and Bioenergy. JBB-D-17-00419.

Oladi, S., Aita, G.* (2017) Evaluation of Imidazolium-Based Ionic Liquids for the Removal of Non-Sugar By-Products from Enzymatically Hydrolyzed Dilute Ammonia Pretreated Energy Cane Bagasse. Journal of Biomass and Bioenergy. JBB-D-17-00690.

Deng, F., Aita, G.* (2017) Fermentation of Fumaric Acid from Purified Lignocellulosic Syrup by *Rhizopus Oryzae* ATCC® 20344TM. Industrial Crops and Products. INDCRO-D-17-02836.

Deng, F., Aita, G.* (2017) Optimization of Activated Carbon Detoxification of Dilute Ammonia Pretreated Energy Cane Bagasse Enzymatic Hydrolysate by Response Surface Methodology. Industrial Crops and Products. INDCRO-D-17-02654.

Deng, F., Aita, G.* (2017) Detoxification of Dilute Ammonia Pretreated Energy Cane Bagasse Enzymatic Hydrolysate by Soluble Polyelectrolyte Flocculants. Industrial Crops and Products. INDCRO-D-17-02653.

Oladi, S., Aita, G.* (2017) Optimization of Liquid Ammonia Pretreatment Variables for Maximum Enzymatic Hydrolysis Yield of Energy Cane Bagasse. Industrial Crops and Products. Industrial Crops and Products. 103:122-132.

Deng, F., Aita, G.* (2017) Lignocellulosic Syrup Production from Energy Cane Bagasse and Fumaric Acid Fermentation. LSU Dissertation (available to public on July 2018).

Oladi, S., Aita, G.* (2017) Production of Fermentable Sugars from Energy Cane Bagasse. LSU Dissertation (available to public on May 2018).

Oladi, S., Aita, G.* (2017) Optimization of Liquid Ammonia Pretreatment by Response Surface Methodology. Factory Operations Seminar LSU AgCenter, pages 40-47.

Deng, F., Aita, G.* (2017) Lignocellulosic Syrup from Energy Cane. Factory Operations Seminar LSU AgCenter, pages 48-51.

Oladi, S., Aita, G.* (2016) Optimization of Liquid Ammonia Pretreatment Variables for Maximum Enzymatic Hydrolysis Yield of Energy Cane Bagasse. *Industrial Crops and Products*. INDCRO-D-16-04146.

Ahamed, N., Pranjali, M., Aita, G., Boldor, D. (2016) Effect of Frequency and Reaction Time in Focused Ultrasonic Pretreatment of Energy Cane Bagasse for Bioethanol Production. *Bioresource Technology*. 200:262-71.

Aita, G., Legendre, B. (2016). Sugar and Bioproducts Research for Louisiana. Audubon Sugar Institute 2012-2014 Report.

Yue, Y, Han, J., Han, G., Aita, G., Wu, Q. (2015) Cellulose Fibers Isolated from Energy Cane Bagasse using Alkaline and Sodium Chlorite Treatments: Structural, Chemical and Thermal Properties. *Industrial Crops and Products*. 76:355-363.

Cao, J., Aita, G.* (2015) Evaluation of Alkaline-and Fungal-Assisted Wet Storage of Energy Cane Bagasse. LSU Thesis. EDT-04042016-153937.

Pham-Bugayong, P., Aita, G.* (2015) Syrup Production from Enzyme Hydrolysates Derived from Dilute Ammonia Pretreated Sweet Sorghum and Energy Cane Bagasse. Factory Operations Seminar. LSU AgCenter, April, pages 27-29.

Pham-Bugayong, P., Aita, G.* 2015. Dilute Ammonia Pretreated Sorghum and Energy Cane Bagasse Enzymatic Hydrolysate Liquor for Syrup Production. *LSU Agriculture*. 58 (2): 23

Kanitkar, A., Chen, C., Smoak, M., Hogan, K., Scherr, T., Hayes, D., Aita, G.* (2014) In Vitro Characterization of Polyesters of Aconitic Acid for Bone Tissue Engineering. *Journal of Biomaterials Applications*. 29(8) 1075–1085.

Qiu, Z., Aita, G.*, Mahalaxmi, S. (2014) Optimization by Response Surface Methodology of Processing Conditions for the Ionic Liquid Pretreatment of Energy Cane Bagasse. *Journal of Chemical Technology and Biotechnology*. 89(5): 682-689.

Pham-Bugayong, P., Aita, G.* (2014) Characterization of Enzyme Hydrolysates Derived from Dilute Ammonia Pretreated Sorghum Bagasse. Factory Operations Seminar LSU AgCenter, pages 73-76.

Kanitkar, A., Smoak, M., Chen, C., Scherr, T., Madsen, L., Hayes, D., Aita, G.* (2015) Synthesis of Novel Polyesters for Potential Applications in Skin Tissue Engineering. *Journal of Chemical Technology and Biotechnology*. 91: 733-741.

Kanitkar, A., Aita, G.*, Hayes, D. (2014) [Synthesis and Characterization of Novel Polyester Scaffolds from Sugarcane Industry By-products for Use in Skin and Bone Tissue Engineering](#). LSU Dissertation. EDT-04072014-152859.

Kanitkar, A., Chen, C., Smoak, M., Hogan, K., Scherr, T., Hayes, D., Aita, G.* (2014) In Vitro Characterization of Polyesters of Aconitic Acid for Bone Tissue Engineering. Journal of Biomaterials Applications. Doi: 10.1177/0885328214553961.

Qiu, Z., Aita, G.*, Mahalaxmi, S. (2014) Optimization by Response Surface Methodology of Processing Conditions for the Ionic Liquid Pretreatment of Energy Cane Bagasse. Journal of Chemical Technology and Biotechnology. 89(5): 682-689.

Pham-Bugayong, P., Aita, G.* (2014) Characterization of Enzyme Hydrolysates Derived from Dilute Ammonia Pretreated Sorghum Bagasse. Factory Operations Seminar LSU AgCenter, pages 73-76.

Presentations

Oladi, S., Aita, G.* (2017) Removal of Non-Sugar Compounds from Dilute Ammonia Pretreated Energy Cane Bagasse Hydrolysates. 39th Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA.

Deng, F., Aita, G.* (2017) Removal of Non-Sugar Compounds from Energy Cane Bagasse Enzymatic Hydrolysate by Flocculation and Activated Carbon for Syrup Production. 39th Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA.

Cheong, D., Aita, G.* (2017) Syrup Production from Lignocellulosic Biomass. 39th Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA.

Oladi, S., Aita, G.* (2017) Optimization of Liquid Ammonia Pretreatment by Response Surface Methodology. Factory Operations Seminar LSU AgCenter, St. Gabriel, LA.

Deng, F., Aita, G.* (2017) Lignocellulosic Syrup from Energy Cane. Factory Operations Seminar LSU AgCenter, St. Gabriel, LA.

Cheong, D., Fang, D., Cao, J., Oladi, S., Aita, G.* (2016) Progress Towards the Production of Syrup from Bagasse. SUBI Meeting, Baton Rouge, LA.

Oladi, S., Aita, G.* (2017) Removal of Non-Sugar Compounds from Dilute Ammonia Pretreated Energy Cane Bagasse Hydrolysates. 39th Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA.

Deng, F., Aita, G.* (2017) Removal of Non-Sugar Compounds from Energy Cane Bagasse Enzymatic Hydrolysate by Flocculation and Activated Carbon for Syrup Production. 39th Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA.

Cheong, D., Aita, G.* (2017) Syrup Production from Lignocellulosic Biomass. 39th Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA.

Oladi, S., Aita, G.* (2016). Optimization of Ammonia Pretreatment and Enzymatic Hydrolysis of Energy Cane Bagasse using Response Surface Methodology. 38th Symposium on Biotechnology for Fuels and Chemicals, Baltimore, MD.

Cao, J., Aita, G.* (2016). Evaluation of Fungal Assisted Wet-storage of Energy Cane Bagasse. 38th Symposium on Biotechnology for Fuels and Chemicals, Baltimore, MD.

Deng, F., Aita, G.* (2016) Detoxification of Dilute Ammonia Pretreated Energy Cane Enzymatic Hydrolysate by Flocculation for Syrup Production. 38th Symposium on Biotechnology for Fuels and Chemicals, Baltimore, MD.

Aita, G. (2015) Alternative Fuels and Chemicals from Grassy Feedstocks and the Sugar Mill Bio-Energy China, Beijing, China. Keynote Speaker.

Aita, G. (2015) Alternative Fuels and Chemicals Lignocellulosic Biomass. Henan Academy of Sciences, Henan Province, China.

Aita, G. (2015) Lignocellulosic Biomass. Henan Agricultural University, Henan Province, China.

Deng, F., Aita, G.*, Bugayong-Pham, P. (2015) Preliminary Detoxification of Dilute Ammonia Pretreated Energy Cane Enzymatic Hydrolysate by Activated Charcoal for Syrup Production. 37th Symposium on Biotechnology for Fuels and Chemicals, San Diego, CA.

Cao, J., Aita, G.* (2015) Evaluation of Alkaline-Assisted Wet-Storage of Energycane Bagasse. 37th Symposium on Biotechnology for Fuels and Chemicals, San Diego, CA.

Oladi, S., Aita, G.* (2015) Optimization of Liquid Ammonia Pretreatment Conditions for Maximizing Glucose Yield of Energycane Using Response Surface Methodology. 37th Symposium on Biotechnology for Fuels and Chemicals, San Diego, CA.

Bugayong-Pham, P., Aita, G.* (2015) Characterization and Detoxification of Enzyme Hydrolysates Derived from Dilute Ammonia Pretreated Sorghum and Energycane Bagasse for Syrup Production. 37th Symposium on Biotechnology for Fuels and Chemicals, San Diego, CA.

Bugayong-Pham, P., Aita, G.* (2014) Characterization and Detoxification of Enzyme Hydrolysates Derived from Dilute Ammonia Pretreated Sorghum Bagasse. 36th Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL.

Kanitkar, A., Aita, G.*, Hayes, D., Madsen, L. (2014) Synthesis and Characterization of Biopolymers of Aconitic acid, Cinnamic acid and Glycerol for Tissue Engineering Applications. 36th Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL.

Oladi, S., Aita, G.* (2014) Effect of Hot Water Pretreatment on the Chemical Composition and Enzyme Digestibility of Energy Cane. 36th Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL.

Daira Aragon

Publications

Aragon, D., Viator, H.P., Ehrenhauser, F.S. 2017. Assessment of Sugarcane Billet Harvester on Recovery of Sweet Sorghum Biomass for Ethanol Production. *Bioenergy Research*, 10(3), 783–791. DOI 10.1007/s12155-017-9839-2

Viator, H.P., Aragon, D., Birkett, H., Stein, J. 2017. Partitioning of the Effects of Plant Trash on Sweet Sorghum Biomass Yield, Fiber Content and Juice Quality Parameters. *Sugar Tech*. DOI: 10.1007/s12355-017-0549-z

Villegas, A., Arias, J.P., Aragon, D., Ochoa, S., Arias, M. 2017. First principle-based models in plant suspension cell cultures: a review. *Critical Reviews in Biotechnology*, 1-13. DOI: 10.1080/07388551.2017.1304891

Villegas, A., Arias, J.P., Aragon, D., Ochoa, S., Arias, M. 2017. Structured Model and Parameter Estimation in Plant Cell Cultures of *Thevetia peruviana*. *Bioprocess and Biosystems Engineering*, 40, 573-587. DOI: 10.1007/s00449-016-1722-6.

Aragon, D. 2017. Development of simulation models to support Louisiana sugar mills. *Louisiana Agriculture Magazine*, Vol. 60, LSU AgCenter. Baton Rouge, pp. 14-15.

Ehrenhauser, F., Aragon, D. 2017. Sugar and salt from sugarcane. *Louisiana Agriculture Magazine*, Vol. 60, LSU AgCenter. Baton Rouge, pp. 16-17.

Ehrenhauser, F., Gaudet, C., Tishechkina, I., Aragon, D. 2017. Crystal size analysis for Louisiana sugar mills 2016/2017 season. LSU AgCenter Audubon Sugar Institute Factory Operations Seminar, April 19, St. Gabriel, USA. LSU AgCenter. pp. 14-17.

Ehrenhauser, F.S., Aragon, D., Gaudet, C., Tishechkina, I. 2017. Size matters: crystal size analysis for the Louisiana sugar industry. *Louisiana Agriculture Magazine*, Vol. 60, LSU AgCenter. Baton Rouge, pp. 20-21.

Aragon, D., Tishechkina, I. 2017. Monitoring crystal growth along the CVP. LSU AgCenter Audubon Sugar Institute Factory Operations Seminar, St. Gabriel, LA, USA. LSU AgCenter. pp. 27-29.

Aragon, D., Ehrenhauser, F., Tishechkina, I., Gaudet, C. 2017. 2016 Sugar crystal size analysis for Louisiana sugar mills. *The Sugar Bulletin*, Vol. 95, pp. 14-16.

Aragon, D. 2016. Boiling House Simulation Models in Louisiana. LSU AgCenter Audubon Sugar Institute Factory Operations Seminar, April 20, St. Gabriel, LA, USA. LSU AgCenter. pp. 10-13.

- Aragon, D., Tishechkina, I. 2016. Process modeling and boiling house survey towards comprehensive improvement of factory performance. *The Sugar Bulletin*, Vol. 94, pp. 23.
- Aragon, D., Tishechkina, I., Ehrenhauser, F., Gaudet, C., Faucheux, T. 2016. Effect of purity drop and cristal size on Molasses exhaustion in the C-Strike. *LSU AgCenter Audubon Sugar Institute Factory Operations Seminar*, April 20, St. Gabriel, LA, USA. LSU AgCenter. pp. 25-29.
- Ehrenhauser, F., Gaudet, C., Tishechkina, I., Aragon, D. 2016. Sugar crystal size analysis for Louisiana sugar mills. *LSU AgCenter Audubon Sugar Institute Factory Operations Seminar*, April 20, St. Gabriel, LA, USA. LSU AgCenter. pp. 6-9.
- Viator, H.P., Lu, S., Aragon, D. 2015. Influence of panicles and leafy material on sweet sorghum juice quality. *Journal of the American Society of Sugar Cane Technologists*, 35, 21-30.
- Aragon, D., Tishechkina, I., Fincher, F. 2015. Combined process modeling and boiling house assessment during factory operations. *LSU AgCenter Audubon Sugar Institute Factory Operations Seminar*, April 16, St. Gabriel, LA, USA. LSU AgCenter. pp. 9-14.
- Aragon, D., Lu, S., Viator, H.P.S., Kimbeng, C., Ehrenhauser, F. 2015. Potential etanol, butanol production from sweet sorghum, energycane. *Louisiana Agriculture Magazine*, Vol. 58, pp. 18.
- Aragon, D., Kimbeng, C., Lu, S., Day, D.F., Legendre, B. 2015, Spring. Performance of energycane varieties for power generation and biofuel production. *Louisiana Agriculture Magazine*, Vol. 58, pp. 16-17.
- Aragon, D. 2014. Modeling and simulation for Louisiana's sugar mills. *LSU AgCenter Audubon Sugar Institute Factory Operations Seminar*, April 14, St. Gabriel, LA, USA. LSU AgCenter. pp. 61-66.
- Ehrenhauser, F., Tishechkina, I., Aragon, D. 2014. Size matters- Crystal size analysis for Louisiana sugar mills II. *LSU AgCenter Audubon Sugar Institute Factory operations seminar*, April 14, St. Gabriel, LA, USA. LSU AgCenter. pp. 41-45.
- Tishechkina, I., Ehrenhauser, F., Aragon, D. 2014. Size matters- Crystal size analysis for Louisiana sugar mills I. *LSU AgCenter Audubon Sugar Institute Factory operations seminar*, April 14, St. Gabriel, LA, USA. LSU AgCenter. pp. 32-40.
- Villegas, A., Arias, J.P., Aragon, D., Arias, M., Ochoa, S. 2014. Multiobjective optimization in biomass production. In: *Libro de resúmenes del XXVII Congreso Interamericano y Colombiano de Ingeniería Química*, Cartagena de Indias, Colombia. CIIQ. pp. 125.
- Villegas, A., Arias, J.P., Aragón, D., Arias, M., Ochoa, S. 2014. Determination of the optimal operation conditions to maximize the biomass production in plant cell cultures of thevetia peruviana using multi-objective optimization. in: *Memorias del XXVII Congreso Interamericano y Colombiano de Ingeniería Química. Optimización de procesos y recursos para un desarrollo sostenible*, (Ed.) C.A. Martinez, Vol. 2, Asociación Colombiana de Ingeniería Química y Profesiones Afines. Bogotá, pp. 1191-1196.

Aragon, D., Suhr, M., Kochergin, V. 2013. Evaluation of Energy Cane and Sweet Sorghum as Feedstocks for Conversion into Fuels and Chemicals. *Sugar Industry*, 138(10), 651–655.

Aragon, D., Lu, S., Kochergin, V. 2013. Conversion of energy cane and sweet sorghum into biofuels and chemicals: a modeling approach. in: Proceedings of the Joint Annual Meeting of the Association for the Advancement of Industrial Crops and the USDA National Institute of Food and Agriculture, (Eds.) J. Janick, A. Whipkey, V.M. Cruz, Purdue University. Washington, D.C., USA, pp. 87-97.

Franz Ehrenhauser

Publications

Peer-reviewed:

Aragon, D., Viator, H. P., & Ehrenhauser, F. S. (2017). Assessment of Sugarcane Billet Harvester on Recovery of Sweet Sorghum Biomass for Ethanol Production. *BioEnergy Research*, 10(3), 783-791.

Ren, S., L. Dong, X. Zhang, T. Lei, F. Ehrenhauser, K. Song, M. Li, X. Sun and Q. Wu (2017). Electrospun Nanofibers Made of Silver Nanoparticles, Cellulose Nanocrystals, and Polyacrylonitrile as Substrates for Surface-Enhanced Raman Scattering. *Materials* 10(1): 68.

Aubrey A. Heath, Michael Vaitilingom, Franz S Ehrenhauser, Lillian E. Cormier, Cara A. Leger, Kalliat T Valsaraj Determination of aldehydes and acetone in fog water samples via online concentration and HPLC *Journal of Atmospheric Chemistry* (2015) 72:2, 165-182.

Valsaraj, K.T. Ehrenhauser, F.S.; Heath, A.; Vaitilingom, M. Mass transport and chemistry at the air-water interface of atmospheric dispersoids. in *Nexus of Food, Energy, and Water*, Ed. Ahuja, S. 2015, Elsevier, 93-112.

Hansel, A. K., Ehrenhauser, F. S., Richards-Henderson, N. K., Anastasio, C., & Valsaraj, K. T. (2015). Aqueous-phase oxidation of green leaf volatiles by hydroxyl radical as a source of SOA: Product identification from methyl jasmonate and methyl salicylate oxidation. *Atmospheric Environment*, 102, 43-51.

Ehrenhauser, F.S.; PAH and IUPAC Nomenclature, *Polycyclic Aromatic Compounds*, 2015, 35 (2-4), 161-176.

Rao, A.; Reddy, R.R.; Ehrenhauser, F.S.; Nandakumar, K.; Thibodeaux, L.J.; Rao, D.; Valsaraj, K.T.; Effect of surfactant on the dynamics of a crude oil droplet in water column: Experimental

and Numerical Investigation, *The Canadian Journal of Chemical Engineering*, 92(12), 2014, 2098-2114

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Liyana-Arachchi, T.P.; Zhang, Z.; Ehrenhauser, F.S.; Avij, P.; Valsaraj, K.T.; Hung, F.R. Bubble bursting as an aerosol generation mechanism during an oil spill in the deep-sea environment: Molecular dynamics simulations of oil alkanes and dispersants in atmospheric air/salt water interfaces. *Environ. Sci.: Processes Impacts*, 16(1), 2014, 53-64.

Ehrenhauser, F.S.; Avij, P.; Shu, X.; Dugas, V.; Woodson, I.; Liyana-Arachchi, T.P.; Zhang, Z.; Hung, F.R.; Valsaraj, K.T. Bubble bursting as an aerosol generation mechanism during an oil spill in the deep-sea environment : Laboratory experimental demonstration of the transport pathway. *Environ. Sci.: Processes Impacts*, 16(1), 2014, 65-73.

Non-Refereed Publications:

Ehrenhauser, F., Aragon, D. Sugar and Salt from Sugarcane. *Louisiana Agriculture Magazine*, 60(3), Summer 2017. 16-17.

Ehrenhauser, F.S. Gaudet, C. Ammonium in Sugar Cane Juice *Audubon Sugar Institute Factory Operation Seminar*, 2017, 18-21

Ehrenhauser, F.S. Gaudet, C., Tishechkina, I., Aragon, D. Crystal Size Analysis for Louisiana Sugar Mills *Audubon Sugar Institute Factory Operation Seminar*, 2017, 14-18

Ehrenhauser, F., Gaudet, C., Tishechkina, I., Aragon, D. Size Matters: Crystal Size Analysis for the Louisiana Sugar Industry. *Louisiana Agriculture Magazine*, 60(1), Winter 2017. 20-21.

Franz Ehrenhauser, Cy Gaudet, Jonathan Bonin "Sugar Cane Starch Reference Material" *Sugar Bulletin* 05/2016

Franz Ehrenhauser, Daira Aragon, Cy Gaudet, Iryna Tishechkina "Sugar Crystal Size Analysis for Louisiana Sugar Mills" *Sugar Bulletin* 05/2016

Linares, S. Ehrenhauser, F.S. Syrup Storage *Audubon Sugar Institute Factory Operation Seminar*, 2016, 44-49

Luangrujiwong, T. Gaston, P. Ehrenhauser, F.S. Deashing of Sugar Streams *Audubon Sugar Institute Factory Operation Seminar*, 2016, 56-63

Ehrenhauser, F.S. Gaudet, C. Bagacillo in Raw Sugar *Audubon Sugar Institute Factory Operation Seminar*, 2016, 50-53

Ehrenhauser, F.S. Gaudet, C., Bonin, J. Sugar Cane Starch Reference Materials *Audubon Sugar Institute Factory Operation Seminar*, 2016, 54-55

Ehrenhauser, F.S. Gaudet, C. Whitelaw, R. Bonin, J. Off-Season Evaporator Cleaning with EDTA *Audubon Sugar Institute Factory Operation Seminar*, 2016, 14-19

Aragon, D. Tischechkina, I. Ehrenhauser F. Gaudet, C., Faucheux T. Effect of Purity Drop and Crystal Size on Molasses Exhaustion in the C-Strike *Audubon Sugar Institute Factory Operation Seminar*, 2016, 25-30

Franz Ehrenhauser, Daira Aragon and Iryna Tischechkina, "Sugar Crystal Size Analysis" *Sugar Bulletin* 05/15

Aragon, D., S. Lu, S. Viator, C. Kimbeng and F. Ehrenhauser. Potential ethanol, butanol production from sweet sorghum, energycane. *Louisiana Agriculture Magazine*, 58(2), Spring 2015. p. 18.

Franz S Ehrenhauser, I. Tischechkina, D. Aragon Size Matters - Crystal Size Analysis for Louisiana Sugar Mills 2014/15 Season, *Audubon Sugar Institute Factory Operation Seminar*, 2015, 15-22

A. Gautam, S. Linares, F. Ehrenhauser De-Ashing of Sugar Solutions using Electrodialysis *Audubon Sugar Institute Factory Operation Seminar*, 2015, 41-47

Iryna Tischechkina, Franz Ehrenhauser and Daira Aragon. Size matters- Crystal size analysis for Louisiana sugar mills I. *Audubon Sugar Institute Factory Operation Seminar*. St. Gabriel, LA., April 22, 2014. Pag. 32-40

Franz Ehrenhauser, Iryna Tischechkina and Daira Aragon. Size matters- Crystal size analysis for Louisiana sugar mills II. *Audubon Sugar Institute Factory Operation Seminar*. St. Gabriel, LA., April 22, 2014. Pag. 41-45