

American Institute of Chemical Engineers

Conference on Sustainability: Lessons, Actions and Outlook

Topical Conference at the
2008 AIChE Spring National Meeting

April 6-10, 2008
New Orleans, Louisiana, USA

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-215-8

Some format issues inherent in the e-media version may also appear in this print version.

ISBN: 978-1-60560-215-8

Copyright (2008) by the American Institute of Chemical Engineers.
All rights reserved.

For permission requests, please contact the American Institute of Chemical Engineers at the address below.

American Institute of Chemical Engineers
Proceedings
Three Park Avenue
New York, NY 10016-5991
Phone: 212-591-8100

www.aiche.org

American Institute of Chemical Engineers
Conference on Sustainability: Lessons, Actions and Outlook
2008

TABLE OF CONTENTS

Current Trends and Future of Biofuels and Biomass-Derived Chemicals.....	1
<i>Yen-Shan Liu, Sanjeev Saraf, Mark E. Zappi</i>	
Microchannel Fischer-Tropsch for Waste-to-Liquids	2
<i>Jeff McDaniel, Robert Litt, Daniel Weidert, David Kilanowski</i>	
Identification of Optimal Poultry Litter Biorefinery Location in Alabama through Minimization of Feedstock Transportation Cost	3
<i>Burak Aksoy, Harry T. Cullinan, Norman E. Sammons Jr., Mario R. Eden</i>	
Alternative Fuels and Engineering for Sustainable Development.....	4
<i>M. Sam Mannan, Yuyan Guo</i>	
Estimation of Synthetic Diesel Fuel Production from California's Carbonaceous Waste Streams Using Steam Hydrogasification.....	9
<i>Arun S.K. Raju, Chan S. Park, Joseph M. Norbeck</i>	
Integration of Fermentation and Transesterification Industrial Scale Processes in the Lower Mississippi River Corridor	16
<i>Debalina Sengupta, Ralph W. Pike, Helen H. Lou</i>	
Development of An Economically Viable Process for Dehydration of Biobased Glycerol.....	21
<i>Jeffrey R. Seay, Mario R. Eden, Robert N. D'Alessandro, Thomas Thomas, Christoph Weckbecker, Klaus Huthmacher, Hubert Redlingshoefer</i>	
Modelling of Integrated Gasification Combined Cycle (IGCC) Systems with Environmental Concerns	23
<i>Fiethamelekot Emun Temeliso, Laureano Jiménez Esteller, Mamdouh Gadalla</i>	
Life Cycle Inventory of Recycling Post-Consumer Nylon Carpets	27
<i>Valli Subbiah, John Muzzy, Matthew Realff</i>	