

# By Lanny D Schmidt The Engineering Of Chemical Reactions Topics In Chemical Engineering 2nd Edition

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#### **Hydrogen from Biomass by Autothermal Reforming**

Lanny D Schmidt Department of Chemical Engineering and Materials Science University of Minnesota Minneapolis MN 55455

Schmidt@cemsumnedu Fuels Reformed by Catalytic Partial Oxidation methane ethanol ethane methanol propane butane hexane octane propanol ethylene glycol glycerol biodiesel \*decane hexadecane

#### **Hydrogen from Renewable Fuels by Autothermal Reforming ...**

by Autothermal Reforming: Alcohols, Carbohydrates, and Biodiesel Lanny D Schmidt Department of Chemical Engineering and Materials Science University of Minnesota Minneapolis MN 55455 Schmidt@cemsumnedu

#### **REPORT OF THE 2001 VISITING COMMITTEE UNIVERSITY OF ...**

Dr Lanny D Schmidt, Department of Chemical Engineering and Material Sciences, University of Minnesota at Minneapolis St Paul Dr Jeffrey J Sirola, Eastman Chemical Company Dr Harry L Spiegelberg, retired, Kimberly-Clark Corporation Dr David Yarusso, 3M Company On April 30, the committee attended a poster session and social hour with

### **MIT ChemE: The Hoyt C. Hottel Lectureship Previous ...**

1999: Lanny D Schmidt, University of Minnesota 1998: James R Katzer, Mobil Oil Company 1997: Mark E Davis, California Institute of Technology 1996: Joshua Swithenbank, University of Sheffield, United Kingdom 1995: Klaus-Heinrich Homann, Technische Hochschule Darmstadt, Germany

### **Supplementary Information Reactive Boiling of Cellulose ...**

Reactive Boiling of Cellulose for Integrated Catalysis Through a Liquid Intermediate Paul J Dauenhauer, Joshua L Colby, Christine M Balonek, Wieslaw J Suszynski, Lanny D Schmidt 2 conversion is about 300  $\mu\text{m}$  Clearly visible within the video is the combination of the two liquid intermediate droplets to a single, larger liquid particle

### **JP-8 REFORMATION FOR FUEL CELL APPLICATIONS**

Lanny D Schmidt Department of Chemical Engineering and Materials Science University of Minnesota 412 Washington Ave SE Minneapolis, MN 55455 ABSTRACT Military jet fuel (JP-8) has been successfully reformed to produce synthesis gas (hydrogen and carbon monoxide) selectively with a rhodium-based catalyst

### **Perspective New Ways to Make Old Chemicals**

Lanny D Schmidt Dept of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, MN 55455 Jon Siddall Catalysis Laboratories, Dow Chemical, Midland, MI 48674 Mark Bearden Hydrocarbons Research Laboratories, Dow Chemical, Freeport, TX 77541 Perspective 1492 August 2000 V ol 46, No 8 AIChE Journal F i g u r e 1

### **DETAILED MODELLING OF SHORT-CONTACT-TIME REACTORS**

DETAILED MODELLING OF SHORT-CONTACT-TIME REACTORS Olaf Deutschmann<sup>1</sup>, Lanny D Schmidt<sup>2</sup>, Jürgen Warnatz <sup>1</sup> Interdiziplinäres Zentrum für Wissenschaftliches Rechnen, Universität Heidelberg Im Neuenheimer Feld 368, D-69120 Heidelberg, Germany <sup>2</sup> Department of Chemical Engineering and Materials Science, University of Minnesota 421 Washington Ave SE, Minneapolis, ...

### **Aditya Bhan Chemical Engineering and Materials Science**

Blass, Samuel D, Aditya Bhan, and Lanny D Schmidt 2013 Hydroconversion of liquid hydrocarbons in a staged autothermal reactor Applied Catalysis A: General 451 (JAN 31): 153-9 Blass, Samuel D, Corey Rosenthal, Aditya Bhan, and Lanny D Schmidt 2013 Reductive dehydration of butanone to butane over Pt/gamma-Al<sub>2</sub>O<sub>3</sub> and HZSM-5

### **Autothermal Oxidative Pyrolysis of Biomass Feedstocks over ...**

The research group of Professor Lanny D Schmidt has pioneered autothermal partial oxidation of a variety of gas and liquid feedstocks on noble metal catalysts to synthesis gas with high selectivity, char-free operation, and on millisecond timescales at temperatures of 600 - 1000 C More recently, cellulose has been shown to de-

### **Christy Wheeler West 150 Jaguar Drive Shelby Hall 4130 ...**

Christy Wheeler West 150 Jaguar Drive Shelby Hall 4130 Mobile, Alabama 36688 2514607463 cwwest@southalabama.edu Education University of Minnesota, Minneapolis Post-doctoral research associate, 2001-2003 Department of Chemical Engineering and Materials Science Advisor: Lanny D Schmidt Georgia Institute of Technology, Atlanta

**Millisecond Catalytic Reforming of Biomass for Synthetic Fuels**

Millisecond Catalytic Reforming of Biomass for Synthetic Fuels Joshua L Colby<sup>1</sup> and Lanny D Schmidt\*<sup>1</sup> University of Minnesota, Department of Chemical Engineering and Materials Science, Minneapolis, MN 55455 (USA)

**SPATIALLY RESOLVED SPECIES AND TEMPERATURE PROFILES ...**

Furthermore, the entire Schmidt group has been very supportive throughout the many conversations and group presentations we have had. Finally, I am grateful for the unwavering support my family has given me in all aspects of life and for allowing me to study far from home. I thank my parents for keeping up with me in my search and pursuit.

**276-Schmidt-Catalytic Partial Oxidation of Higher Hydrocar.**

Catalytic Partial Oxidation of Higher Hydrocarbons at Millisecond Contact Times: Decane, Hexadecane, and Diesel Fuel Jakob J Krummenacher, Kevin N West, and Lanny D Schmidt<sup>1</sup> Department of Chemical Engineering and Materials Science, University of Minnesota, 421 Washington Ave SE, Minneapolis MN 55455, USA

**Ethanol Dehydration to Ethylene in a Stratified ...**

Ethanol Dehydration to Ethylene in a Stratified Autothermal Millisecond Reactor A THESIS SUBMITTED TO THE FACULTY OF THE GRADUATE SCHOOL OF THE UNIVERSITY OF MINNESOTA BY Michael James Skinner IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF Master of Science Lanny D Schmidt Advisor Aditya Bhan, Advisor April, 2011

**Multifunctional and Multi-Staged Reactors for Liquid Fuel ...**

Multifunctional and Multi-Staged Reactors for Liquid Fuel Generation from Renewable Feedstocks A DISSERTATION SUBMITTED TO THE FACULTY OF THE GRADUATE SCHOOL OF THE UNIVERSITY OF MINNESOTA BY Hui Sun IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY Adviser: Lanny D Schmidt September, 2012

**Millisecond Autothermal Steam Reforming of Cellulose for ...**

Millisecond autothermal steam reforming of cellulose for synthetic biofuels by reactive flash volatilization† Joshua L Colby, Paul J Dauenhauer and Lanny D Schmidt\* Received 19th March 2008, Accepted 25th April 2008 First published as an Advance Article on the web 2nd June 2008 DOI: 10.1039/b804691c

**Biomass Upgrading in Staged Autothermal Reactors with ...**

Biomass Upgrading in Staged Autothermal Reactors with Multifunctional Catalysts A dissertation submitted to the faculty of the Graduate School of the University of Minnesota by Samuel D Blass In partial fulfillment of the requirements for the degree of Doctor of Philosophy Advisors: Lanny D Schmidt Aditya Bhan December 2013

**AVS 64 Awards Cover.qxp Layout 1 6/24/17 9:28 AM Page 1**

2013 Bruce D Sartwell 2015 William Scaife 1993 Thomas Scatchard\* 2006 Paul M Schaible 2014 Carl P Schalansky 2005 Albert Schoolcraft 1993 Hubert Schleuning\* 2010 Lanny D Schmidt 2012 Juergen M Schroeer 2010 Ronald E Shalkhauser 2011 Alex R Shimkunas 2005 Vern D Shipman 2009 Hideo Sibata 2017 Irwin Lee Singer 2001 Jack Singleton