TLUD Gasifiers Bibliography by Dr. Julien Winter (Cobourg, ON, Canada)

Revised: 10 January 2015

Anderson, PS. 2009 Construction Plans for the "Champion-2008" TLUD Gasifier Cookstove http://www.bioenergylists.org/files/Construction%20Plans%202009-03-11.pdf

Anderson, PS. 2009 Interpretation of CO and PM Emissions Data from TLUD Gasifier Cookstoves.

Anderson, PS. 2010 Making biochar in small cookstoves and heaters. Ch. 11 in Taylor, P (editor). The Biochar Revolution: Transforming Agriculture and the Environment. Global Publishing Group.

Anderson, PS. 2010 TLUD Handbook. Revision 1.3 Pamphlet

Anderson, PS. 2011 Practical Realities of TLUD Micro-Gasifier Cookstoves. 5th Biennial Partnership for Clean Indoor Air Forum in Lima, Peru, February 21-26, 2011

Anderson, PS. 2012 Barrel-size Micro-gasification for Combined Heat and Biochar (CHAB) in "Mini" Industries. ETHOS Conference of 2012 --- Seattle-Kirkland, WA 29 January 2012

Anderson, PS. 2013 Challenges and solutions about TLUD stoves - 2012 to January 2014 ETHOS Conference, Seattle-Kirkland, WA, USA, 25-27 January 2013

Anderson, PS. 2013 Troika™ TLUD Stove: First Look. Pamphlet. http://www.drtlud.com/wp-content/uploads/2013/11/troika-2013-11-27.pdf

Anderson, PS. 2013b Introduction to the "Quad" TLUD Micro-Gasifier Stove Pamphlet. http://www.drtlud.com/wp-content/uploads/2013/09/Intro-to-the-Quad-TLUD-2013-09-09.pdf

Anderson, PS. 2013c Micro-gasification Terminology: An Instructional Summary of MG Pamphlet. http://www.drtlud.com/wp-content/uploads/2013/11/micro-gasification-terminology-14nov2013.pdf

Anderson, PS. 2014a Troika™ Bingwa™ TLUD-ND Stove: Simplified Construction Pamphlet. http://www.drtlud.com/wp-content/uploads/2014/02/Troika-Bingwa-TLUD-2014-02-10.pdf

Anderson, PS; Reed, TB 2004 Biomass Gasification: Clean Residential Stoves, Commercial Power Generation, and Global Impacts Prepared for the LAMNET Project International Workshop on "Bioenergy for a Sustainable Development," 8-10 Nov 2004, Viña del Mar, Chile

Anderson, PS; Reed, TB; Wever, PS. 2007 Micro-gasification: what it is and why it works. Boiling Point 53: 35-37

Anderson, PS; Wendelbo, P. 2009 Construction Plans for the "PP-Plus" TLUD Gasifier Cookstove. pamphlet

Andreatta, D. 2007 A Report on Some Experiments with the Top-Lit Up Draft (TLUD) Stove. Presented at the ETHOS 2007 Conference, Kirkland, Washington, January 27, 2007. On the Internet at: http://bioenergylists.org/stovesdoc/Andreatta/TLUD_Report.pdf

Ballard, B. 2009 Woodgas Camp Stoves. Renewable Energy Training Centre, Morrisville State College. Pamphlet

Bazman (Barry Batchelor) 2012 FatBoy Gasifier. BioChar.net newsgroup posting

Belonio, AT 2005 Rice Husk Gas Stove Handbook Appropriate Technology Center, Department of Agricultural Engineering and Environmental Management, College of Agriculture, Central Philippine University, Iloilo City, Philippines

Birzer, C; Medwell, P; Wilkey, J; West, T; Higgins, M; MacFarlane, G; Read, M. 2013 An analysis of combustion from a top-lit up-draft (TLUD) cookstove. Journal of Humanitarian Engineering, 2(1)

Cahoj, E 2012 Instructions for Making and Using the Liberty Biofuel Products LLC Biochar Processor Pamphlet

Caveng, R (Rico). 2000 Peko Pe Grass Cooker Handbook. Swiss Humanitarian Aid Unit (SHA). Swiss Agency for Development and Cooperation (SDC) Federal Department of Foreign Affairs. 39 p.

Chip Energy. 2012 Emergency Biomass Stove Pipe Stove. Goodfield, IL

Cornelissen, G; Sparrevik, M; Martinsen V; Shitumbanuma, V; Hoel, T; de Kruijff, H; Kros, M; van Leur, M. 2012 Biochar conservation farming in Zambia: Improving crop yield and storing carbon. Norwegian Geotechnical Institute (NGI) Report No. 20100920-07-R, 72 p.

Cooke, D. 2011 Biochar Project, blog. http://biocharproject.org/charmasters-log/tlud-biocharstove-sale-biochar-industries/

Frogner KJ. 2011 TLUD gasifier with awesome modifications. Pamphlet

Gill, J. 2010 Introduction to iCans for Educators Pamplet

Haiti Clean Stove Project 2011 ND-TLUD Temperature. Blog

Hall, JB. 1998 Portable wood burning camp stove. US Patent 5,842,463 A

Huangfu, Y; Li, H; Chen, X; Xue, C; Chen C; Liu, G. 2014 Effects of moisture content in fuel on thermal performance and emission of biomass semi-gasified cookstove. Energy for Sustainable Development 21: 60–65

Harris, K. 2014 Methods of Substantial Turn-down in the TLUD Wood Gas Cook Stove http://lists.bioenergylists.org/pipermail/stoves_lists.bioenergylists.org/attachments/20140515/adc42da5/attachment.pdf

Hérail, A. 2013a Introducing T-LUD stoves for use in charbirquette production plants. Part 1. APPLIED R&D ON T-LUD TECHNOLOGY FOR CHARBRIQUETTE PRODUCTION IN CAMBODIA

Hérail, A. 2013b Development of 2 charring-drying modules using T-LUD technology Part 2. APPLIED R&D ON T-LUD TECHNOLOGY FOR CHARBRIQUETTE PRODUCTION IN CAMBODIA

Hérail, A. 2013c Development Of Charbriquette Dryer Using TLUD Technology Part 2. APPLIED R&D ON T-LUD TECHNOLOGY FOR CHARBRIQUETTE PRODUCTION IN CAMBODIA

Hottenroth, FW Sr.; Jacoby, HD 1966 Forced Draft Solid Carbon Fuel Burning Cooker US Patent 3,279,452

Hottenroth, FW Sr.; Hottenroth, FW Jr.. 1975 Portable forced draft solid fuel burning cooker. US Patent 3,868,943

Hottenroth, FW Sr.; Hottenroth, FW Jr.. 1976 Portable forced draft cooker US Patent 3,982,522 A

Hottenroth, FW Sr.; Hottenroth, FW Jr.. 1984 Compact stove for emergency and other uses. US Patent 4,471,751

Hottenroth, FW Sr.; Hottenroth, FW Jr.. 1988 Biomass Stove. [ND-TLUD] US Patent 4,730,597

Hottenroth, FW Sr.; Hottenroth, FW Jr.. 1991 Portable Stove. [Charcoal Burner] US Patent 5,024,208

Kammen, DM 1995 Cookstoves for the Developing World Scientific American, July, 1995, p.72

Lask, KM. 2013 Lighting cones for Hiatian stoves. M.Sc. Thesis, University of California, Berkeley. 22 p.

McLaughlin, H; Anderson, PS; Shields, FE; Reed, TB. 2009 All Biochars are Not Created Equal, and How to Tell Them Apart North American Biochar Conference, Boulder, CO – August 2009

McLaughlin, H. 2010 1G Toucan TLUD for Biochar Production. Pamplet

McLaughlin, H. 2011 How to make high and low adsorption biochars for small research studies. Pamplet

Mukhopadhyay, R; Sambandam, S; Pillarisetti, A; Jack, D; Mukhopadhyay, K; Balakrishnan, K; Vaswani, M; Bates, MN; Kinney, PL; Arora, N; Smith, KR. 2012 Cooking practices, air quality, and the acceptability of advanced cookstoves in Haryana, India: an exploratory study to inform large-scale interventions. Global Health Action 5: 1-13 DOI: 10.3402

Mukunda, HS; Dasappa, S; Paul, PJ; Rajan, NKS; Yagnaraman, M; Kumar, DR; Deogaonkar, M. 2010 Gasifier stoves – science, technology and field outreach. Current Science 98: 627-638

Murad, E; Dragomir, F. 2012 Heat generators with tlud gasifier for generating energy from biomass with a negative balance of CO2. Proceedings of 2012 International Conference of Hydraulics and Pneumatics - HERVEX 7 - 9 November, Calimanesti-Caciulata, Romania

Hoel, T; Formo, O. 2012 Biochar production using the Peko Pe stove in Zambia. Report to the Norwegian Geotechnical Institute (NGI). 37 p.

Olivier, PA 2013 Empowering the poor through small-scale gasification. ETHOS Conference, Seattle-Kirkland, WA, USA, 25-27 January 2013

Ogle, D. 2005 Test of materials for downdraft grates. Aprovecho Research Center, January 2005

Panwar, NL; Rathore, NS. 2008 Design and performance evaluation of a 5 kW producer gas stove. Biomass & Bioenergy 32: 1349-1352 DOI: 10.1016/j.biombioe.2008.04.007

Patil, KN; Ramana, PV; Singh, RN. 2000 Performance evaluation of natural draft based agricultural residues charcoal system. Biomass & Bioenergy 18: 161-173 DOI: 10.1016/S0961-9534(99)00079-3

Pemberton-Pigott, C. 2004 VESTO - the Variable Energy Stove. New Dawn Engineering

Peterson, SC; Jackson, MA. 2014 Simplifying pyrolysis: Using gasification to produce corn stover and wheat straw biochar for sorptive and horticultural media. Industrial Crops and Products, 53, 228-235

Servals 2012 User Feedback for Servals TLUD Biomass Gasifier Cookstoves from Sunderbans (West Bengal, India). Powerpoint.

Raman, P; Murali, J; Sakthivadivel, D; Vigneswaran, VS. 2013 Performance evaluation of three types of forced draft cook stoves using fuel wood and coconut shell. Biomass & Bioenergy 49: 333-340 DOI: 10.1016/j.biombioe.2012.12.028

Reed, TB. 1995 Current Status of the "Inverted Downdraft Gasifier" BIOMASS ENERGY FOUNDATION Inc. 1810 Smith Rd. - Box 1392 Golden, CO 80401 303-278 0558; 303-273 3730 FAX; E-Mail - 73002,1213

Reed, TB; Das, A; 1988 Handbook of Biomass Gasifier Engine Systems, The Biomass Energy Foundation Press 140 p.

Reed, TB; Larson R 1996 A wood-gas stove for developing countries. Presented at the "Developments in Thermochemical Biomass Conversion" Conference, Banff, Canada, 20-24 May, 1996

Reed, TB; Walt, R. 1999 The "Turbo" Wood-Gas Stove in Biomass: Proceedings of the 4th biomass Conference of the Americas in Oakland, Ca, Ed R. P. Overend and E. Chornet, Pergamon Press, 1999

Reed T, Walt R, Ellis S, Das A, Deutch S. 1999 Superficial velocity – the key to downdraft gasification. In: Fourth biomass conference of the Americas, Oakland, USA; 1999. p. 343–56

Reed, TB; Anselmo, E; Kircher, K. 2000. Testing and modeling the wood-gas turbo stove. Presented at the Progresss in Thermochemical Biomass Conversion Conference, Sept. 17-22, 2000, Tyrol, Austria

Roth, C. 2011 Micro Gasification: Cooking with gas from biomass. 1st Edition. Published by GIZ HERA – Poverty-oriented Basic Energy Service. 100 p.

Roth, C. 2013 Micro Gasification: Cooking with gas from dry biomass. 2nd Edition — Revised. Published by GIZ HERA – Poverty-oriented Basic Energy Service. 100 p.

Thurber, MC; Phadke, H; Nagavarapu, S; Shrimalic, G; Zerriffid, H. 2012 'Oorja' in India: assessing a large-scale commercial distribution of improved cookstoves to households. Energy for Sustainable Development 19: 138–150

Tonge, P. 1984 Fuel-stingy Z stove: Could it be the answer for fuel-poor third world? The Christian Science Monitor January 6, 1984

Varunkumar, S 2012 Packed bed gasification-combustion in biomass based domestic stoves and combustion systems. Ph.D. Thesis submitted to the Department of Aerospace Engineering, Indian Institute of Science, Bangalore – 560 012 (INDIA)

Varunkumar, S; Rajan, NKS; Mukunda, HS. 2011b Single particle and packed bed combustion in modern gasifier stoves—density effects. Combustion Science and Technology 183: 1147-1163.

Varunkumar, S; Rajan, NKS; Mukunda, HS 2011a Experimental and computational studies on a gasifier based stove. Energy Conversion and Management 53: 135–141

Varunkumar, S; Rajan, NKS; Mukunda, HS. 2013 Universal flame propagation behaviour in packed bed of biomass. Combustion Science and Technology, DOI:10.1080/00102202.2013.782297

Wendelbo, PB. 2012 Story of an innovator Paal Berg Wendelbo, Pioneer of TLUD Gasifier Stoves. http://wendelborecho.wordpress.com/our-story/inventor/

Wilson, K 2010 How to Make the Dome School Biochar Stove. Pamplet

Wilson, K 2013 How to Make Your Own Biochar Stove Biochar Ebooks 22 p.

Zhang, S; Li, X; He, G; Yang, H; Wang, X; Chen, H. 2013 Gasification property of agriculture wastes in an updraft fixed bed gasifier with top-lit ignition. Transactions of the Chinese Society of Agricultural Engineering 29(10): 196-202