

American Society of Agricultural  
& Biological Engineers

International Conference on  
Crop Harvesting and Processing  
2007

February 11-14, 2007  
Louisville, Kentucky, USA

Printed from e-media with permission by:

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571  
[www.proceedings.com](http://www.proceedings.com)

ISBN: 978-1-60560-051-2

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

American Society of Agricultural & Biological Engineers

International Conference on Crop Harvesting and Processing  
2007

## TABLE OF CONTENTS

<b>Combine Effects on Comminling and Residual Grain .....</b>	1
<i>M. Hanna, D. Jarboe, G. Quick</i>	
<b>Capacitance Sensor for Forage Mass Determination .....</b>	16
<i>Z. Kviz, F. Kumhala, V. Prosek</i>	
<b>Development and Field Performance of a Willow Cutter-Shredder-Baler.....</b>	22
<i>F. Lavoie, P. Savoie, L. D'Amours, H. Joannis</i>	
<b>Simulation of Baled Hay Drying with Airflow Inversion and Partial Exhaust Air Recirculation .....</b>	31
<i>R. Morissette, P. Savoie</i>	
<b>Development of Rice Combines in Viet Nam .....</b>	41
<i>P. Hien, T. Van Khanh, G. Quick</i>	
<b>The Solar Macaroni Dryer .....</b>	51
<i>P. Hien, L. Vinh, T. Thuv</i>	
<b>Development of an Alternative, Reaper/Flail Based Harvesting System for Biomass Collection and No-Till Seeding - 2nd Year .....</b>	57
<i>M. Siemans, D. Hulick</i>	
<b>Problems of Shea Butter Processing in Africa .....</b>	69
<i>A. Alonge, A. Olaniyan</i>	
<b>Mapping Harvested Yield and Field Performance from a Rice Combine .....</b>	92
<i>A. Yahya, R. Ruslan, N. Salahuddin, A. Wayayok</i>	
<b>Assessing Activity Access of Forage or Biomass .....</b>	113
<i>D. Buckmaster</i>	
<b>A New Concept of Integrated Mechanization System for the Oil Palm Plantation Industry in Malaysia .....</b>	122
<i>D. El Pebrian, A. Yahya</i>	
<b>Improving the Safe Use of Portable Grain Augers Through Technological Innovation .....</b>	136
<i>J. Desbiolles, J. Raz</i>	
<b>Winter Canola: Semi Dwarf Varieties Coming Up.....</b>	151
<i>A. Feiffer, J. Koch</i>	
<b>Author Index</b>	