

Department of Technology & Environmental Design

Graduate Student Research Titles

2011

AUTHOR	TITLE
Landon Abernethy	<i>An Empirically Derived Model Regarding the Regional Performance of Flat Plate, Evacuated Tube, and Compound Parabolic Concentrating Solar Thermal Collectors Based on Varying Ratios of Direct to Diffuse Solar Radiation</i>
Benjamin Sánchez Andrade	<i>Optimization and Analysis of an Affordable Rural Ecologic Home for Marginal Communities in the Sierra Negra Zone, State of Puebla, México (thesis)</i>
Joshua Ball	<i>Key attributes of Successful Community-Level Sustainability Initiatives: A Multi-Case Study</i>
Drew Basinger	<i>Identifying De Facto Standards in Mobile Web Design Using Research in Motion's BlackBerry Bold and Apple's iPhone</i>
Joshua Bowman	<i>A Comparative Study of Turbines at the Beech Mountain Small Wind Research Facility</i>
Sebastian Brundage	<i>Wind Shear Coefficient Variations due to Site Characteristics</i>
Anthony Drummond	<i>A Comparison of Tefzel-Glazed and Glass-Glazed Solar Thermal Collectors</i>
Michal Duffy	<i>Trash to Treasure: Examination of the Potential to Compost Organic Waste from the Central Dining Hall at Appalachian State University</i>
Joseph Gill	<i>E-Readers Versus Books</i>
Chris Guttenberg	<i>Levels of Adoption of Sustainable Technology by Montana Career-Technical Education Teachers</i>
David B. King	<i>A Comparative Analysis of Energy Performance Score (EPS) and REM/Rate for Predicting Residential Energy Usage and Savings</i>
Jon C. Kirchner	<i>Acoustic Emission Characterization of Six Wind Turbines (thesis)</i>
Janet Miller	<i>Evaluation of the Design and Implementation of a Home Energy Savings Campaign in a Rural Electrical Cooperative</i>

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Alexandra Patey	<i>Examination of the Effects of Micro-hydro Stream Diversion in High Gradient Appalachian Streams</i>
William R. Pflieger	<i>Quantification of ENERGY STAR[®] Qualification for New Homes: An Investigation of Market Impacts</i>
John Robinson	<i>Comparative Power Production at Varying Total Irradiance Levels and Direct Beam Fractions between Polycrystalline Silicone Photovoltaic Modules that are either Fixed-mounted or Passive Single-axis Tracking Mounted</i>
Sam Sink	<i>Impact of Biochar on the Water Holding Capacity of Loamy Sand Soils in the Southeastern United States</i>
Joseph Sizemore	<i>Thermal Analysis of a Latent Energy Storage Device Designed for a Domestic Hot Water Solar Thermal System: A Case Study</i>
David M. Lee	<i>A Direct Comparison Between a Central Inverter and Microinverters in a Photovoltaic Array (thesis)</i>