

AUTHOR	TITLE
Reid Anderson	<i>An Evaluative Case Study of HVAC System Performance in a Historic Structure: Expected and Actual HVAC System Performance at the Hiddenite Arts and Heritage Center</i>
Andy Goodnight	<i>Thermal Massing Qualities of Insulated Decking Systems Compared to Slab on Grade</i>
Connor Ballard	<i>Electricians and the North Carolina Photovoltaic Industry: The Perceptions, Knowledge, and Experiences of Electricians Regarding Photovoltaics</i>
Audrey Cook	<i>Assessment of the Appalachian State University Solar Resource using GIS-based Site Selection and Prioritization of ASUREI Photovoltaic Projects</i>
Emil deJong	<i>Greywater Reuse System Automation: Analyzing the Feasibility of Automating a Recirculating Vertical Flow Constructed Wetland Greywater Treatment System in Hair Salons</i>
Jakob Sjostrand	<i>Empirical Analysis of Short-Term Variability from Utility-Scale Solar Farms in North Carolina (THESIS)</i>
Nathan Anderson	<i>Western North Carolina Green Building Council Green Built Certification: Analysis of Green Building Trends</i>
John O'Neal	<i>Open-Source Photosynthetic Light Sensor to Fine-Tune Greenhouse Plant Lighting and Aquaponic Weather Automation: PAR + Weather + Arduino = PAWRduino</i>

Department of Sustainable Technology & the Built Environment
Graduate Student Research Titles

2016-2017

Stephen Guin	<i>Analysis of BIM Use in the Workplace by Alumni of Appalachian State University's Building Science Program</i>
Christan Williams	<i>Defining a Rational Path Forward For Renewable Energy Certificates in the United States</i>
Jared Sanborn	<i>The Effects of Biochar as a Soil Amendment on Soil Quality and Plant Growth: A Study for the North Carolina High Country (THESIS)</i>
Robb O'Brien	<i>Identification of Optimal Sites for Maximum Productivity from Utility-Scale Hybrid PV/Wind Systems (THESIS)</i>
Sarah Hooper	<i>Daylighting: An Analysis of the Indoor Environmental Quality of Appalachian State University Classrooms (THESIS)</i>
Tyler Boyes	<i>Residential Rainscreen Cladding Systems: An Experimental Investigation in Boone, North Carolina</i>
Zachary Sprau	<i>Self-Consumption PV System Effects on Residential Grid Imports and Exports (THESIS)</i>
Leah Simmerman	<i>Abbreviated Historical Structure Report on the Hiddenite Arts and Heritage Center in Hiddenite, North Carolina (THESIS)</i>