



Heather Burpee

Research Assistant Professor, University of Washington Integrated Design Lab

Education

2008 University of Washington, Architecture, Master of Architecture
1999 Whitman College, Biology, Art History, Bachelor of Arts.

Academic Research Appointments

2005-Present UNIVERSITY OF WASHINGTON INTEGRATED DESIGN LAB
Research Assistant Professor (2011-present)
Research Associate (2008-2011)
Research Assistant (2005-2008)

Selected Publications

- 2014 Burpee, H., Loveland, J., Hatten, M., and Helmers, A. "Targeting 100! A Roadmap for Meeting the 2030 Challenge in Healthcare Across the United States." American Council for an Energy Efficient Economy (ACEEE) Summer Study on Energy Efficiency in Buildings, Asilomar, CA. August 2014.
- 2013 Burpee, H., Loveland, J. "Targeting 100! Envisioning the High Performance Hospital in Six Climate Regions." World Review of Science, Technology and Sustainable Development Journal. Vol. 10, Nos. 1/2/3, 2013. Peer Reviewed Paper.
- 2013 Burpee, H., Loveland, J. "Targeting 100!" In: Guenther, R., and Vittori, G. eds. Sustainable Healthcare Architecture 2nd ed. John Wiley & Sons, Inc. June 2013. Invited Book Chapter.
- 2011 Burpee, H., Loveland, J., Ban Houten, B., Hatten, M. "Targeting 100! Energy Use and Model Calibration Study: Legacy Salmon Creek Medical Center in Vancouver Washington." Technical Document.
- 2010 Loveland, J., Burpee, H., Hatten, M., and Griffin, D. "Target 100: Meeting the 2030 Challenge in Hospital Design." American Council for an Energy Efficient Economy (ACEEE) Conference. Asilomar, CA. August 2010 (Peer-Reviewed Paper).

Selected Synergistic Activities

Direct Project Consultation, 2006-Present

Consult with regional, national, and international firms on best practices for high performance, low energy hospitals including benchmarking operational facilities. High impact projects include Energy Assessments with Providence Health and Services, Energy goal setting and energy modeling for University of Washington Medical Center, Energy efficiency design support for Valley Medical Center MOB, Peace Island Medical Center, and Swedish Issaquah Medical Center.

Targeting 100!, 2007-2013

Project Manager for US Department of Energy and Northwest Energy Efficiency Alliance funded research project, Targeting 100!, investigating the cost and energy implications of designing hospitals that meet the 2030 Challenge in six regions across the U.S. Wrote project proposal, develop and maintain close relationships with subcontractors and co-collaborators (Solarc Architecture and Engineering, NBBJ, and TBD Consultants), manage student and colleagues work, and evolve national relationships with peer groups for review and continued research partnerships. US DOE and NEEA Funded Research: 2007-2013.

Legacy Salmon Creek Medical Center, 2010-2011

Led a hospital energy benchmarking study at Legacy Salmon Creek Medical Center collecting detailed end-use measurements. US DOE/ARRA Funded Research: October 2010 – May 2011.

Energy Benchmarking, 2011

Led an effort to collect, document, and analyze numerous building energy profiles as part of a combined effort of the Integrated Design Lab Network. Collection of data resulted in a database for project's energy use profiles both as designed and as operated to be used for research and educational purposes. Northwest Energy Efficiency Alliance (NEEA) Funded Research: Summer 2011.