David Goldwasser, LEED AP

Profile

Researcher and software engineer for the National Renewable Energy Laboratory's Buildings and Thermal Sciences Center, Commercial Buildings Research Group, since 2010. Primary investigator for the OpenStudio Platform. Roles include project management, feature and code development for the OpenStudio SDK, OpenStudio Measures, testing, documentation, support, and outreach. Recent work has focused on the development of zero energy design guides, model articulation tools to support analysis of neighborhood and district scale modeling, and advanced building construction research.

Employment

**National Renewable Energy Laboratory, Golden, CO,** *2010 – Present*

* Researcher IV-Software Engineer
* Software development, training, support, documentation, testing, outreach, measure development, analysis

**Google, Boulder, CO,** *2009 (Contract)*

* Software testing and development related to Earth products and SketchUp

**Boulder Associates Architects, Boulder, CO,** *2006 - 2009*

Architecture

**Inertia Visual Media Memphis, TN,** *2000 – 2006 (Owner)*

* Visual media services with a focus on panoramic and interactive photography

**Looney Ricks Kiss Architects, Memphis, TN,** *1997 - 2000*

Architecture

**Hnedak Bobo Group, Memphis, TN,** *1995 - 1997*

* Architecture and Construction Management

Education

**Master of Construction Management**, Washington University, St. Louis, MO, *1995*

**Bachelor and Master of Architecture**, Tulane University School of Architecture, New Orleans, LA, *1994*

Publications Highlights

* Peter Schneider, Leslie Badger, Dusan Brhlik, David Goldwasser, Ben Polly (2022) Resilient, Rural, and Revolutionary: Salisbury Square's Direct-Current Affordable Microgrid Community
* Hang Li, Jiansong Zhang, Xiaorui Xue, Luciana Debs, Soowon Chang, Ming Qu, Anthony Sparkling, **David Goldwasser** (2022) Issues in Bi-directional Interoperability between BIM and BEM
* Tanushree Charan, Christopher Mackey, Ali Irani, Ben Polly, Stephen Ray, Katherine Fleming, Rawad El Kontar, Nathan Moore, Tarek Elgindy, Dylan Cutler, Mostapha Sadeghipour Roudsari, **David Goldwasser** (2021) Integration of open-source URBANopt and Dragonfly energy modeling capabilities into practitioner workflows for district-scale planning and design.
* Shanti Pless, Amy Allen, Lissa Myers, **David Goldwasser**, Andrew Meintz, Ben Polly, and Stephen Frank (2020) Integrating Electric Vehicle Charging Infrastructure into Commercial Buildings and Mixed-Use Communities: Design, Modeling, and Control Optimization Opportunities
* Rawad El Kontar, Ben Polly, Tanushree Charan, Katherine Fleming, Nathan Moore, Nicholas Long, **David Goldwasser** (2020) URBANopt: An Open-Source Software Development Kit for Community and Urban District Energy Modeling
* Rois M. Langner, Paul A. Torcellini, Matt Dahlhausen, **David Goldwasser**, Sarah B. Zaleski (2020) Transforming New Multifamily Construction to Zero: Strategies for Implementing Energy Targets and Design Pathways
* Carlo Bianchi, Liang Zhang, David Goldwasser, Andrew Parker, Henry Horsey (2020) Modeling occupancy-driven building loads for large and diversified building stocks through the use of parametric schedules
* Janghyun Kim, Stephen Frank, Piljae Im, James E. Braun, **David Goldwasser**, Matt Leach (2019) Representing Small Commercial Building Faults in EnergyPlus, Part II: Model Validation
* Janghyun Kim, Stephen Frank, James E. Braun, **David Goldwasser** (2019) Representing Small Commercial Building Faults in EnergyPlus, Part I: Model Development
* Shanti Pless, Paul Torcellini, **David Goldwasser** (2018) Moving K-12 Zero Energy Schools to the Mainstream: Establishing Design Guidelines and Energy Targets.
* **David Goldwasser**, Brian Ball, Amanda Farthing, Stephen Frank, Piljae Im (2018) Advances in Calibration of Building Energy Models to Time Series Data.
* Shanti Pless, Paul Torcellini, Eric Bonnema, **David Goldwasser** (2016) Technical Feasibility Study for Zero Energy K-12 Schools.
* **David Goldwasser**, Daniel Macumber, Andrew Parker, Edwin Lee, Rob Guglielmetti, Larry Brackney (2016) The Life Cycle of an OpenStudio Measure: Development, Testing, Distribution, and Application.
* Amir Roth, **David Goldwasser**, Andrew Parker (2015). There’s a Measure for That
* Hale, E.; Lisell, L.; **Goldwasser, D.**; Macumber, D.; Dean, J.; Metzer, I.; Parker, A.; Long, N.; Ball, B.; Schott, M. (2014). Cloud Based Model Calibration Using OpenStudio; Golden, CO: National Renewable Energy Lab. NREL/CP-5500-61420.
* Nicholas Long, Brian Ball, **David Goldwasser**, Andrew Parker, Jennifer Elling, Oliver Davis, Dale Krutchen (2013) Leveraging OpenStudio’s Application Programming Interfaces.
* Hale, E.; Macumber, D.; Benne, K.; **Goldwasser, D.** (2012). Scripted Building Energy Modeling and Analysis: Preprint. 10 pp.; NREL Report No. CP-5500-54774.