2015 Building Envelope Forum: *Integration Drives Evolution*

TUESDAY, DECEMBER 15, 2015 | THE MOUNTAINEERS SEATTLE PROGRAM CENTER, 7770 SAND POINT WAY NE, SEATTLE | 98115

** all sessions/speakers subject to change*

Keynote Speaker:

Stephen Selkowitz | Senior Advisor for Building Science, Building Technology and Urban Systems Division at Lawrence Berkeley National Laboratory

Stephen Selkowitz has 40 years of experience in the field of building energy performance, with an emphasis on research, development, and deployment of energy efficient technologies and sustainable design practices. He is Senior Advisor for Building Science at Lawrence Berkeley National Laboratory (LBNL), and Leader of the Windows and Envelope Materials Group.

An internationally recognized expert on window technologies, window software tools, façade systems, and daylighting, he leads a multidisciplinary team in the development and demonstration of technologies, systems, processes and tools. Projects range from basic materials research for glazing and daylighting to development of energy simulation tools for integrated building design and operations, and from near term field demonstrations of emerging technologies to research supporting "net zero energy" buildings.

He led the team that developed LBNL's new FLEXLAB, the Facility for Low Energy eXperiments in Buildings. The research program balances R&D with an aggressive technology transfer effort so that research results are effectively adopted by the building industry. Selkowitz participates in a wide range of building industry, government, and professional activities in the U.S. and internationally, is a Scientific Advisor to 4 building science programs globally, and author/co-author of over 170 publications, 4 books and holds 2 patents. In 2012 he was the recipient of the first LBNL Lifetime Achievement Award for Societal Impact and in 2014 he received the McGraw Hill/ENR 2014 Award of Excellence for "relentlessly working to reduce the carbon footprint of buildings and for moving the nation towards better building performance." He holds an AB degree from Harvard College with a major in Physics and an MFA in Environmental Design from California Institute of the Arts.

Forum Speakers:

Dan Whitmore, CPHC | Building Analyst, Hammer & Hand

Dan Whitmore has worked in the construction industry since 1987 as a carpenter, general contractor, builder, and even FEMA Inspector. Today Dan is a leader and educator in the North American Passive House movement, serving as a board member of Passive House Northwest and Passive House Alliance US and as a curriculum developer and lead instructor for the national Passive House Builders Training for Passive House Institute US. As designer, builder and Certified Passive House Consultant, he completed one of the first Passive Houses in Washington State. He concentrates on high performance building consulting and construction for Hammer & Hand.

Zack Semke, LEED AP | Chief Evangelist, Hammer & Hand

Zack Semke developed and produced the Evolution of Enclosure exhibit, the basis for this session. He directs business development at Hammer & Hand, a construction company dedicated to inciting evolution in building. He studied human ecology at Stanford University ('93). Since then he's worked as an advocate for progressive regional planning, a developer of nonprofit community organizations, and a beater of really big Japanese drums (taiko). In 2010 he joined H&H where he gets to tap the company's high performance building experience and share it with the world. He works at The Bullitt Center, a setting conducive to contemplating the future of our planet and the role that buildings might play in diffusing our climate crisis.

Jim Hanford, AIA, LEED AP BD+C | Architect and Associate, The Miller Hill Partnership

Jim Hanford is an Architect and Associate with The Miller Hull Partnership, where he is the building performance and sustainability leader. He has a professional background, both in a research capacity and as an architect, in evaluation of design strategies and technologies for low-energy buildings. Jim has 20 years of experience working on a wide range of public and private projects and leading architectural

and research teams. He has a BS in Civil Engineering from Stanford University and an M. Arch. from University of California, Berkeley.

Jeff Speert, AIA, Architect AIBC, LEED AP | Managing Principal, JRS Engineering

Jeff Speert is the JRS Seattle Managing Principal. He has 20 years of practical construction industry experience, including roles as carpenter, designer, contractor, architect and building envelope consultant. Jeff has a passion for sustainability and has provided services for numerous sustainable design projects focusing on energy efficiency and green building systems. He has been a LEED Accredited Professional for 12 years and is a nationally certified HERS (Home Energy Rating System) Rater. He is also director of JRS's whole building air barrier testing service. Jeff contributed to developing JRS's building envelope commissioning standards, which incorporate added services and documentation into the firm's existing active role in the construction of enclosures. Jeff received his Master's Degree in architecture from the University of Washington and is a licensed architect in Washington State and British Columbia.

Mina Akhavan, M.S., EIT | Building Envelope Consultant, JRS Engineering

Mina Akhavan is responsible for a variety of design and construction support functions. Her current projects focus on data recording and analysis of condition assessments, design of rehabilitations, and ongoing field review of work in progress. She is detail focused, attentive to clients and contractors and technically knowledgeable.

Prior to joining JRS, Mina interned at several engineering consulting firms in Austin, Texas and completed a Masters in Architectural Engineering at The University of Texas at Austin. Her focus was on building science and thesis topic was "The Influence of Aerogel Insulation Blanket on Wall and Floor Thermal Performance." Mina's coursework included energy efficient and healthy buildings, sustainability planning and architecture, renewable energy and environmental sustainability, light and sustainable design, and materials and methods of building construction.

Dan Luddy, PE, BEMP CPHC, LEED AP | Senior Energy Engineer, ArchEcology

Dan Luddy is a Senior Energy Engineer at ArchEcology, a sustainability and energy consulting firm based in Seattle. Dan has over 8 years of energy analysis experience in Washington, New York, New Jersey and Massachusetts. In addition to energy modeling, his experience includes building envelope heat transfer analysis, hygrothermal modeling and Passive House consulting. He has consulted on a variety of commercial, multifamily, institutional and industrial projects. He holds a degree in Mechanical Engineering from Syracuse University.

Mark R. Morden, AIA | Associate Principal at Wiss, Janney, Elstner Associates Inc.

Mark Morden has been with WJE since 1982, and have special expertise in building enclosure systems for both contemporary and historic buildings. Mark Morden has conducted more than 500 investigations of deteriorated and distressed structures including historic and contemporary buildings. His investigations typically involve building envelope systems (cladding and roofing) He uses difficult access techniques to closely inspect exterior building conditions. Mr. Morden is experienced at translating investigation findings and recommendations into remediation documents. He designs innovative solutions to complex problems, develop repair details, and authors technical specifications. Mr. Morden is the author of several articles and papers on preservation and construction technology. His work has appeared in national publications and ASTM international technical publications and has also given technical presentation at several national preservations conferences.